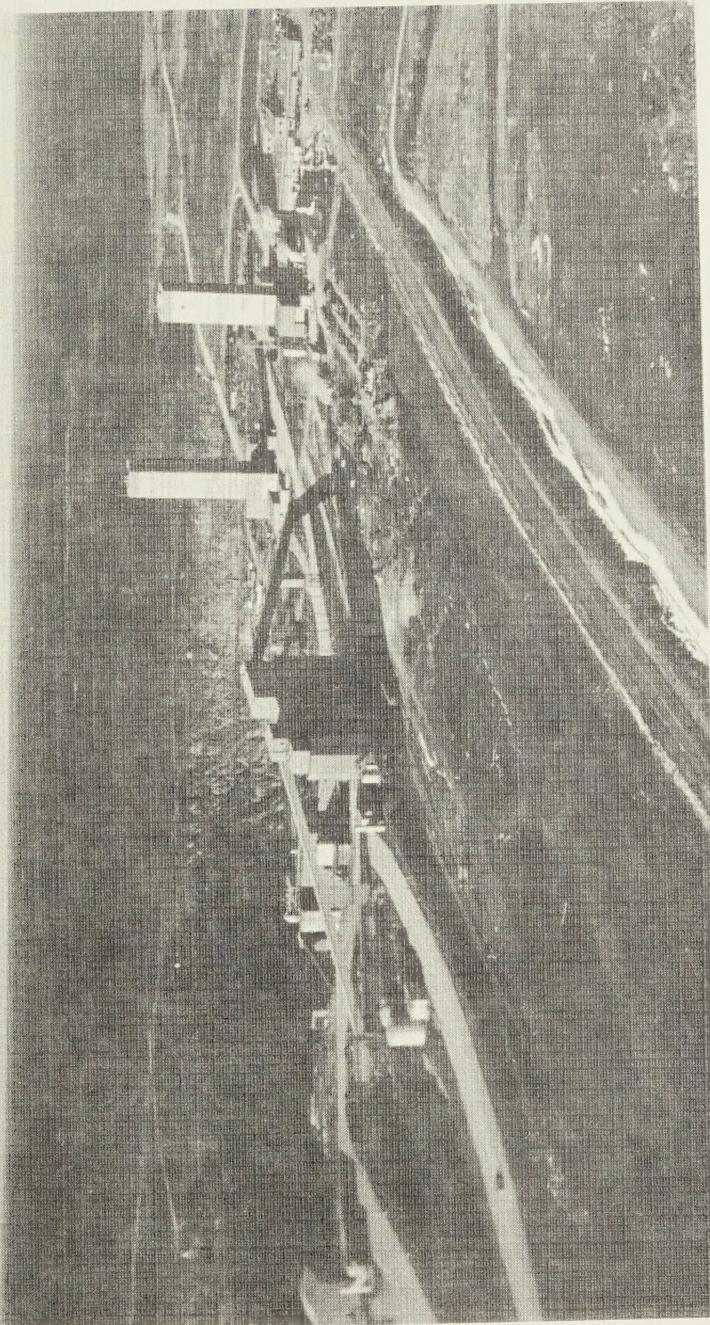


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1989



Ministry of
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and Mines
Ontario

Hugh P O'Neil, Minister of Mines



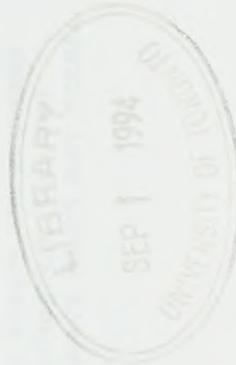
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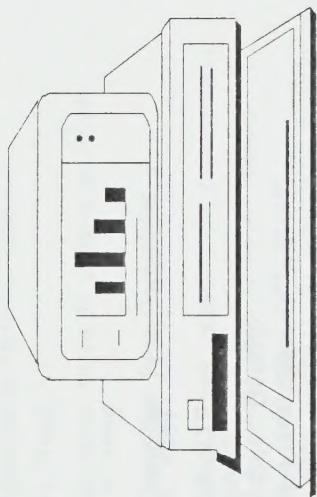
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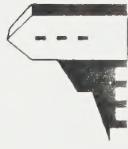
MID - YEAR MINING STATISTICS



Information and Statistics Section
Mineral Development and Lands Branch
Ministry of Northern Development and Mines



Although the Ontario Ministry of Northern Development and Mines has made every effort to ensure the accuracy of the data appearing in this publication, it cannot assume responsibility for any inaccuracy which may occur.



Should you have any questions or suggestions
regarding the MID-YEAR MINING STATISTICS
or should you require additional copies please
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TABLE OF CONTENTS:

Page

Introduction	7
Major Metal Production In Ontario by Commodity Jan.-June 1988 & 1989	10
Summary of Metal Production In Ontario by Mine Classification, Jan.-June 1988 & 1989	11
Summary of Mining Operations In Ontario, 1988	12
Summary of Employment, 1988	19
Summary of Employment, Metal Mines In Ontario by Mine Classification, 1987 & 1988	20
Total volume of Gold Production from Gold Mines In Ontario, Jan.-Sept. 1989	22
Mine Openings and Closings, 1988 / 1989	24
Major Metal Prices and Exchange Rate, 1988 & 1989	25
Ontario Copper Production and Copper Price In Canadian Dollars, 1981 - 1988	26
Ontario Gold Production and Gold Price In Canadian Dollars, 1981 - 1988	27
Ontario Nickel Production and Nickel Price In Canadian Dollars, 1981 - 1988	28
Ontario Silver Production and Silver Price In Canadian Dollars, 1981 - 1988	29
Ontario Zinc Production and Zinc price In Canadian Dollars, 1981 - 1988	30
Claims Report from Ontario Mining Recorders' offices Jan.-Oct. 1989	32
Mining Claims In Good Standing in Ontario, 1979 - 1988	34
Mining Claims Recorded in Ontario, 1979 - 1988	36
Mining Claims Cancelled In Ontario, 1979 - 1988	38
Assessment Work Report (In Days) from Mining Recorders' Office, Jan.-Oct. 1989	41
Assessment Work Recorded (In Days) In Ontario 1979 - 1988	42
Prospectors' Licences Issued In Ontario, 1979 - 1988	44
Prospectors' Licences Renewed In Ontario, 1979 - 1988	46

Total Exploration and Development Expenditures	50
In Ontario, 1981 - 1988	
Total Exploration and Development Expenditures	52
In Ontario by Mining Division, 1987 and 1988	
Exploration and Development Expenditures In Ontario	54
Precious Metals vs Base Metals, 1981 - 1988	
Total Exploration and Development Expenditures	56
In Ontario, 1987 and 1988	
Total Exploration and Development Expenditures	58
In Ontario by Type of Work Performed, 1988	
General Exploration Expenditures In	60
Northwest Region, 1988	
General Exploration Expenditures In	61
Northeast Region, 1988	
General Exploration Expenditures In	62
Southern Region and Undefined Region, 1988	
General Exploration Expenditures by Metal or	63
Mineral Sought In Ontario, 1988	
Minesite Exploration Expenditures In	64
Northwest Region, 1988	
Minesite Exploration Expenditures In	65
Northeast Region, 1988	
Minesite Exploration Expenditures In	66
Southern Region, 1988	
Minesite Exploration Expenditures by Metal or	67
Mineral Sought In Ontario, 1988	
Minesite Development Expenditures In	68
Northwest Region, 1988	
Minesite Development Expenditures In	69
Northeast Region, 1988	
Minesite Development Expenditures In	70
Southern region, 1988	
Minesite Development Expenditures by Metal or	71
Mineral Sought In Ontario, 1988	
General Exploration Expenditures by Metal and Mineral	72
Sought and by Mining Division, 1988	
Minesite Exploration Expenditures by Metal and Mineral	75
Sought and by Mining Division, 1988	
Minesite Development Expenditures by Metal and Mineral	78
Sought and by Mining Division, 1988	
List of Producing Mines In Ontario, 1989 - 1990	81



INTRODUCTION

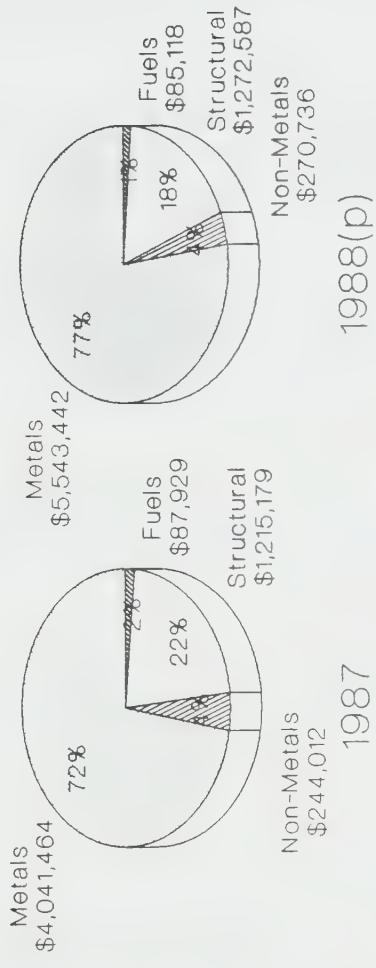
The 1989 edition of the Mid - Year Mining Statistics is based on the result of the Census questionnaire which we send out yearly to mining companies operating in Ontario.

Statistics contained in this publication include mineral production in Ontario, employment in mining, claims, assessment work, exploration and development expenditures and much more valuable information.

The following abbreviations were used wherever applicable:

P	Preliminary
KEN.	Kenora Mining Division
PAT.	Patricia Mining Division
R.L.	Red Lake Mining Division
TH.B.	Thunder Bay Mining Division
POR.	Porcupine Mining Division
S.S.M.	Sault Ste. Marie Mining Division
L.L.	Larder Lake Mining Division
SUD.	Sudbury Mining Division
S.O.	Southern Ontario Mining Division
P.W.	Province Wide

Total Mineral Production in Ontario in Thousands of Current Dollars 1987 and 1988(p)



p = preliminary production
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MAJOR METAL PRODUCTION IN ONTARIO
BY COMMODITY
(PRELIMINARY)

Mineral Commodity	Unit	1988 Jan.-June	1989 Jan.-June	% Change '89 vs '88 (Jan.-June)	
			
Cobalt	Kg	1,037,569	1,021,913	-1.51	
Copper	Kg	154,912,775	149,885,040	-3.25	
Gold	G	29,271,742	37,542,729	28.26	
Iron Ore	Tonne	1,444,074	1,799,142	24.59	
Nickel	Kg	73,531,524	79,125,806	7.61	
Silver	Kg	201,424	174,225	-13.50	
Uranium	Kg	2,183,703	2,027,776	-7.14	
Zinc	Kg	171,225,533	133,364,043	-22.11	

Source: Information and Statistics Section, MNDM

SUMMARY OF
METAL PRODUCTION IN ONTARIO
BY MINE CLASSIFICATION
(PRELIMINARY)

Mine Classification	Mineral Commodity	Unit	1988	1989	% Change '89 vs '88 (Jan. - June)
Gold	Gold	Kg	27,918,872	36,330,407	30.13
	Silver	Kg	2,826	3,436	21.59
Silver	Silver	Kg	24,165	20,276	-16.09
Nickel	Nickel	Kg	73,531,524	79,125,806	7.61
	Copper	Kg	85,269,357	74,459,339	-12.68
	Cobalt	Kg	1,037,569	1,021,913	-1.51
	Gold	G	811,814	777,532	-4.22
	Silver	Kg	29,950	27,885	-6.89
Zinc-Copper-Lead	Copper	Kg	70,185,880	75,425,701	7.47
	Zinc	Kg	171,225,533	133,364,043	-22.11
	Lead	Kg	n. a.	n. a.	n. a.
	Gold	G	541,056	434,790	-19.64
	Silver	Kg	144,609	122,628	-15.20
	Cadmium	Kg	n. a.	n. a.	n. a.
Uranium	Uranium	Kg	2,183,703	2,027,776	-7.14
Iron	Iron Ore	Tonne	1,444,074	1,799,142	24.59

Source: Information and Statistics Section, MNDM

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined	Ore Milled	Develop- ment work (1)	Diamond Drilling
			Tonnes	Tonnes	Metres	Metres
American Barrick Res. (Holt-McDermott)	Gold	191	201,270	199,195	4,876	59,184
Ateba Mines Inc. (Tailings Dump)	"	30	-	28,395	*	-
Bond Gold Canada Inc. (Golden Patricia Mine)	"	69	27,280	30,525	6,238	11,200
Canamax Resources Inc.	"					
- Bell Creek Mine		80	116,587	122,764	2,529	2,583
- Kremzar Mine		56	52,713	52,713	1,722	6,123
Dickenson Mines Ltd.	"					
- Arthur White Mine		368	235,152	235,152	3,516	25,132
Eastmaque Gold Mines Ltd. (Tailings Project)	"	39	-	426,523	*	-
E. R. G. Resources Inc. (Tailings Project)	"	45	-	565,854	*	-
Falconbridge Gold Corp. Ltd.	"					
- Hoyle Pond Mine	)	113	83,389	-	1,862	15,694
- Owl Creek	)		185,404	-	712	7,533
- Kidd Creek Gold Mill		17	-	147,638	-	-

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
 (PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined	Ore Milled	Develop-	Diamond		
					ment	Drilling	work (1)	Metres
			Tonnes	Tonnes				Metres
Giant Yellowknife Mines Ltd								
(Timmins Division)								
Gold								
- No. 1 Mine								
- No. 1 Mine #3 Pit								
- No. 1 Mine #4 Pit								
- Definite Pit								
- Ross Mine								
- Schumacher Mine								
- Timmins Surface								
- No. 1 Mine Concentrator								
- Schumacher Mine Concentrator								
- Go Mill								
Golden Shield Resources Ltd.								
- Kerr Mine Division								
n								
377								
319,182								
350,746 (2)								
1,895								
19,867								
Hemlo Gold Mines Inc.								
- Golden Giant Mine								
n								
294								
927,100								
927,100								
4,909								
2,850								
Lac Minerals Ltd.								
- Macassa Div								
n								
312								
144,181								
170,611 (3)								
3,640								
1,541,632								
13,819								
14,794								

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
 (PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined	Ore Milled	Develop ment Work (1)	Diamond Drilling Metres Metres
			Tonnes	Tonnes		
Lake Asbestos of Canada Ltd.	Gold	69	61,505	61,505	1,067	9,987
- Aquarius Mine		n	13	-	39,088 (4)	-
Mc Bean Mine		"	52	56,071	56,613	4,203
Muscocho Explorations Ltd.		"	17	49,396	40,138	3,384
- Magino Mine						10,352
Noramco Mining Corp.		"	15	24,000	33,989	-
- Golden Rose Mine						
Orofino Resources Ltd.		"				
- Scadding Mine						
Placer Dome Inc.						
- Campbell Red Lake Mine		501	366,656	366,656	4,068	18,723
- Detour Lake Mine		299	659,775	806,568 (5)	1,678	19,918
- Dome Mine		727	1,026,752	1,026,752	3,281	19,882
Renable Gold Mines Ltd.		"	176	203,104	203,104	2,374
Teck-Corona Operating Corp.						
- David Bell Mine			194	392,556	392,556	2,345
Total:	Gold	5,330	8,379,698	9,535,038	75,313	320,712

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined	Ore Milled	Develop ment work (1)	Diamond Drilling
			Tonnes	Tonnes	Metres	Metres
The Adams Mine						
	Iron	360	3,358,676	3,402,844	0	P
Algoma Steel Corpn-Algoma Ore Div.						
	n	332	1,371,708	1,351,694	2,569	-
Sherman Mine						
	n	351	3,386,674	3,353,149	-	-
Total:						
	Iron	1,043	8,117,058	8,107,687	2,569	-
Denison Mines Ltd.						
	Uranium	1,695	2,576,714	2,572,017	30,159	15,334
Rio Algom Ltd.						
	n					
	- Panel Mine	647	975,178	977,672	8,498	3,618
	- Stanleigh Mine	532	654,457	651,613	13,124	11,140
	- Quirke Mine	1,079	1,524,887	1,524,887	9,200	7,113
Total:	Uranium	3,953	5,731,236	5,726,189	60,981	37,205

O P --- Open Pit

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
 (PRELIMINARY)

Name of Company	Mine Classification	Av No. Employees	Ore Mined	Ore Milled	Develop- ment work (1)	Diamond Drilling
			Tonnes	Tonnes	Metres	Metres
Falconbridge Limited-Kidd Creek Div. Zinc-Copper-Lead						
- No. 1 Mine	)	1,718	3,248,023	8,032	7,696	
- No. 2 Mine	)		977,986	1,825	27,264	
Mattabi Mines Ltd.	n	152	333,654	623,025	174	1,135
Minnova Inc.	n	127	211,919	220,326	1,087	-
Winston Lake Div.						
Noranda Minerals Inc.						
- Lyon Lake Div.	n	130	300,759 (milled at Mattabi)	6,021	22,845	
- Geco Div.	)	499	1,309,799	1,309,799	5,332	20,789
Total:	Zinc-Copper-Lead	2,626	6,382,140	6,454,124	22,471	79,729
Agnico - Eagle Mines Ltd.	Silver					
- Castle Mine	)		4,206	4,206	145	3,702
- Langis Mine	)	160	8,218	8,218	402	5,116
- Temiskaming Mine	)		21,258	21,258	519	5,943
- Penn Mill	)			57,948	-	-
Hellens-Eplett Mining Inc.	Silver	n	14	2,810	4,615	n. a.
Total:	Silver	174	36,492	62,563	1,066	16,072

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
 (PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined	Ore Milled	Develop- ment work (1)	Diamond Drilling
			Tonnes	Tonnes	Metres	Metres
Falconbridge Ltd	Nickel (Included Onaping)	47,206	-	-	3,396	31,912
- Craig Mine		155	182,837	-	405	-
- East Mine		282	790,400	-	1,921	8,628
- Fraser Mine		250	596,978	-	1,551	2,438
- Lockerby Mine						
- No. 1 Shaft Open Pit	(Incl. East)		239,691	-	-	276
- No. 5 Shaft Crown Pillar	(Incl. East)		9,435	-	408	76
- Onaping Mine		241	294,223	-	908	200
- Strathcona Mine		270	426,136	-	3,551	14,316
- Falconbridge Mill		11	-	68,053	-	-
- Strathcona Mill		148	-	2,523,096	-	-
- All Other Departments		638	-	-	-	-
Sub total:	Nickel	1,995	2,586,906	2,591,149	12,240	57,846

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined	Ore Milled	Develop- ment work (1)	Diamond- Drilling
			Tonnes	Tonnes	Metres	Metres
Inco Limited - Ontario Division	Nickel					
- Clarabelle Open Pit	)		113,194	-	-	-
- Coleman mine	)		2,400	-	-	-
- C. C. North Mine	)		538,666	-	202	3,023
- C. C. South Mine	)		1,029,466	-	4,990	8,485
- Creighton #3 & #9 Shafts	)		1,696,704	-	9,676	4,267
- Crean Hill Mine	)		486,392	-	2,890	3,499
- Garson Mine	)	5,559	26,071	-	1,113	1,682
- Frood Mine	)		1,581,006	-	2,394	586
- Levack Mine	)		871,576	-	284	2,493
- Little Stobie Mine	)		684,193	-	4,658	2,583
- McCready Mine	)		704,672	-	3,687	1,011
- Stobie Mine	)		2,258,208	-	5,464	4,242
- Whistle Mine	)		470,995	-	-	-
- Tam "o" Shanter Open Pit	)		117,976	-	-	-
- Sudbury District Mills	)		-	10,610,390	-	-
(Clarabelle, Copper Cliff and Frood Stobie Mills)						
Sub total:	Nickel	5,559	10,581,519	10,610,390	35,358	31,871
Total:	Nickel	7,554	13,168,425	13,201,539	47,598	89,717

Note: * Tailings retreated.

- (1) Includes Drifting, Crosscutting, Raising & Internal Ramps.
- (2) Includes ore from Barber-Larder and Cheminis Projects
- (3) Includes tailings from Lakeshore Mine.
- (4) Bulk sampling.
- (5) Includes stockpiled ore.

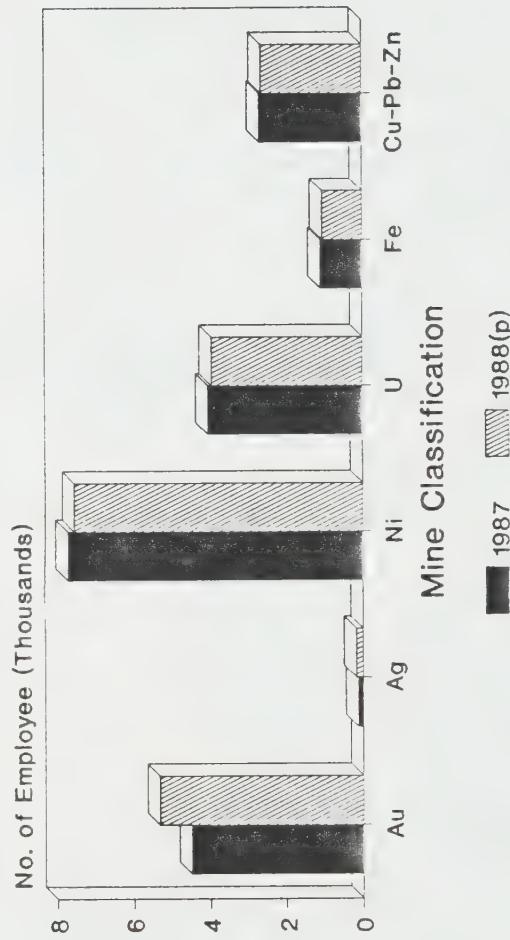
SUMMARY OF EMPLOYMENT, 1988
(PRELIMINARY)

Smelters, Refineries, Metallurgical Works & Acid Plants

Name of Company	No. Employed
Inco Ltd.	1,024
- Smelter Complex	534
- Cooper Refinery	526
- Nickel Refinery	360
- Port Colborne Refinery	
Falconbridge Ltd.	297
- Smelter	317
- Kidd Creek Zinc Plant	216
- Kidd Creek Copper Refinery	
Timminco Metals (Div. of Timminco Ltd.)	370
Dofasco Inc. (Blast Furnaces)	451
Stelco Inc.	103
- Hilton Works Blast Furnaces	252
- Lake Erie Works Blast Furnaces	
Cameco - A Canadian mining & Energy Corporation	347
- Port Hope Refinery	162
- Blind River Refinery	
The Algoma Steel Corp. Ltd. (Iron Making Dept.)	309
Agnico-Eagle Mines Ltd. (Refinery)	14
Total:	5,282

Total Employment in 1988 for Metal & Non-Metal Mines, Mills,
Smelters, Refineries, Metallurgical & Acid Plants was 25,962
Source: Information and Statistics Section, MNDM

Summary of Employment Metal Mines in Ontario by Mine Classification



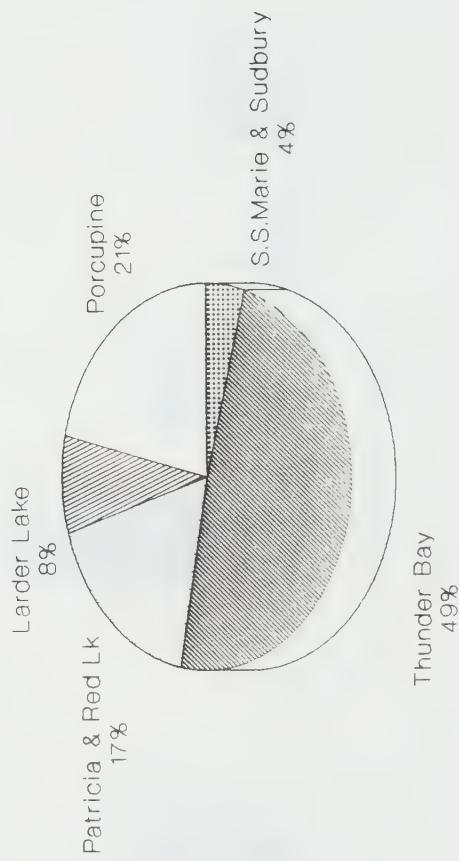
Source: Information & Statistics Section
Ministry of Northern Development & Mines

SUMMARY OF EMPLOYMENT
 METAL MINES IN ONTARIO
 BY MINE CLASSIFICATION
 (PRELIMINARY, 1988)

Mine Classification	1987	1988 ⁸⁸	% Change '88 vs '87
.....
Gold	4,494	5,330	18.6
Silver	128	174	35.9
Nickel	7,723	7,554	-2.2
Zinc-Copper-Lead	2,676	2,626	-1.9
Uranium	4,050	3,953	-2.4
Iron	1,091	1,043	-4.4
Total	20,162	20,680	2.6

Source: Information and Statistics Section, MNDM

**TOTAL VOLUME OF GOLD PRODUCTION
FROM GOLD MINES IN ONTARIO
JAN. - Sept. 1989**



Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL VOLUME OF GOLD PRODUCTION
FROM GOLD MINES IN ONTARIO, 1989
(PRELIMINARY)

	January	February	March	April	May	June	July	August	September	Total
.....
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)
1,048,460	1,126,375	1,158,757	1,436,631	1,480,118	1,464,848	1,494,422	1,565,853	1,460,561	12,236,025	
Porcupine Div										
Larder Lake Div.	441,576	453,549	566,234	570,876	575,710	533,969	389,011	455,977	690,031	4,676,933
Patricia & Red Lake Div.	884,778	844,917	1,050,680	1,024,476	1,165,823	1,108,295	1,402,210	1,040,650	1,349,489	9,871,318
Thunder Bay Div.	2,915,012	2,296,606	2,675,198	2,892,886	3,013,292	3,906,997	3,079,076	3,571,678	3,449,893	27,800,638
S. S. Marie & Sudbury Div.	256,551	246,610	253,062	233,886	244,881	273,903	314,853	342,320	272,276	2,438,342
Total:	5,546,377	4,968,057	5,703,931	6,158,755	6,479,824	7,288,012	6,679,572	6,976,478	7,222,250	57,023,256

Source: Information and Statistics Section, MNDM

MINE OPENINGS AND CLOSINGS IN ONTARIO
1989/90

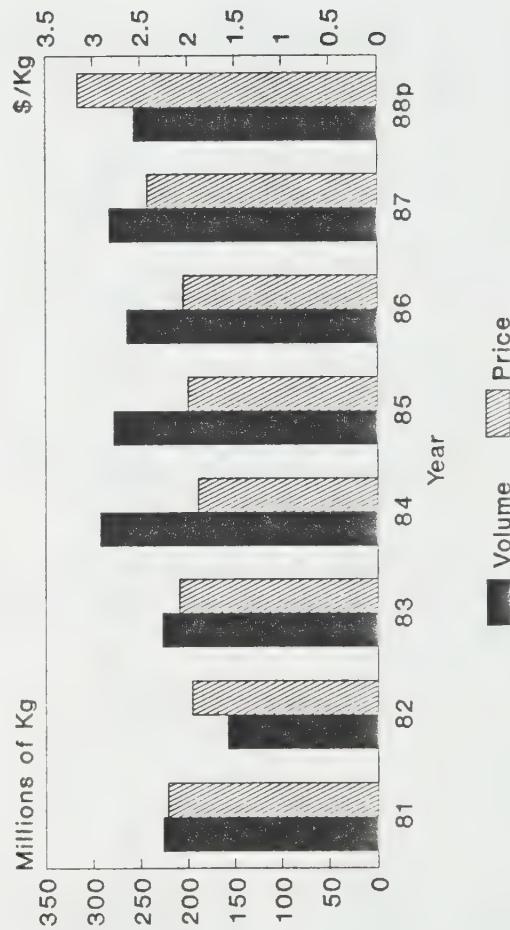
Name of Mine	Location	Products	Remarks
Inco Ltd.	Shebandowan	Nickel, Copper	Reopened March/89
Placer Dome Inc. (Dona Lake Mine)	Pickle Lake	Gold	Production March/89
St. Andrew Goldfields Ltd	Stock Twp.	Gold	Production Sept. /89
Timmins Nickel Inc. (Redstone Mine)	Timmins	Nickel	Production June/89
* * * * *			
Agnico-Eagle Mines Ltd (Adams Mine)	Cobalt	Silver	Mines closed Jan./89 Mill closed June/89
Dofasco Inc. (Sherman Mine)	Kirkland Lake	Iron Ore	Mine to close March/90
Giant Yellowknife Mines Ltd. (Schumacher Mine)	Temagami	Iron Ore	Mine to close March/90
Golden Shield Resources Ltd. (Kerr Mine)	Virginia Town	Gold	Mine closed May/89
* * * * *			
* * * * *			

Source: Information and Statistics Section, MNDM

MAJOR METAL PRICES AND EXCHANGE RATE

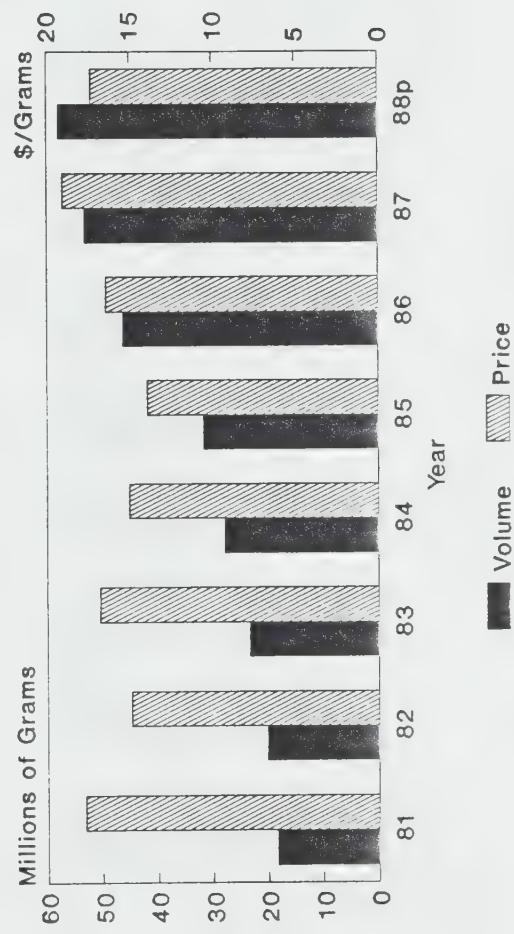
Exchange Rate		Canadian Dollars				
		U. S. Dollar in Canadian Dollars	Gold (\$/g)	Silver (\$/kg)	Copper (\$/kg)	Nickel (\$/kg)
1988						
January	1.2853	19.69	287.77	3.63	10.38	1.31
February	1.2679	18.02	266.81	3.07	10.99	1.31
March	1.2490	17.79	265.88	3.00	23.52	1.39
April	1.2351	17.93	266.09	2.79	22.25	1.53
May	1.2369	17.94	269.31	2.84	21.06	1.53
June	1.2174	17.66	286.03	3.06	18.98	1.72
July	1.2073	16.99	250.77	2.76	17.61	1.72
August	1.2243	16.98	273.54	2.73	17.37	1.72
September	1.2265	16.30	260.30	3.14	14.57	1.87
October	1.2052	15.76	252.38	3.68	13.93	1.92
November	1.2174	16.44	251.81	4.08	16.24	1.93
December	1.1960	16.10	243.74	4.24	20.24	1.98
1989						
January	1.1914	15.48	237.29	3.47	21.12	2.14
February	1.1890	14.81	234.08	3.07	22.02	2.20
March	1.1953	14.99	235.70	3.26	20.51	2.49
April	1.1886	14.63	229.54	3.12	17.71	2.29
May	1.1927	14.23	217.20	2.77	16.05	2.23
June	1.1984	14.16	210.92	2.41	14.55	2.14
July	1.1888	14.33	200.75	2.47	14.59	2.12
August	1.1754	13.80	196.51	2.79	15.17	2.17

Ontario Copper Production and Copper Price in Canadian Dollars 1981 - 1988p



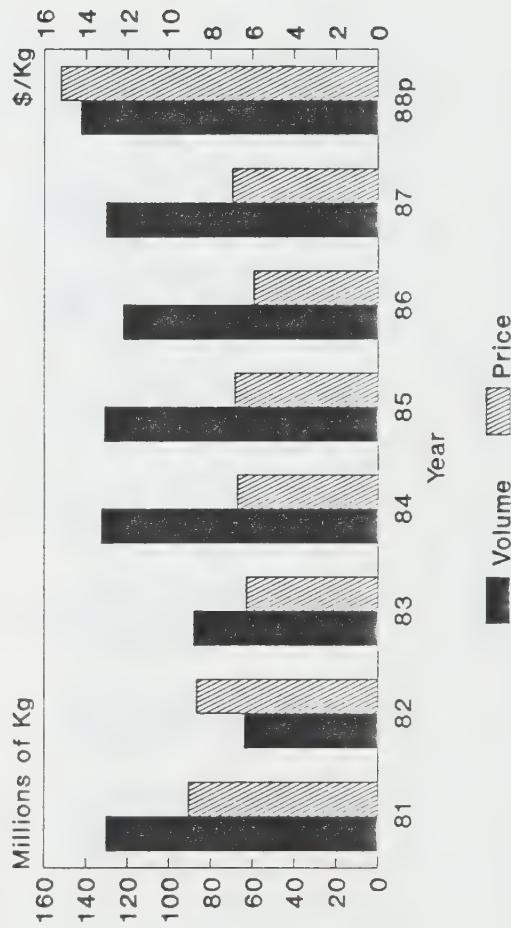
Source:Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Gold Production and Gold Price in Canadian Dollars 1981 - 1988p



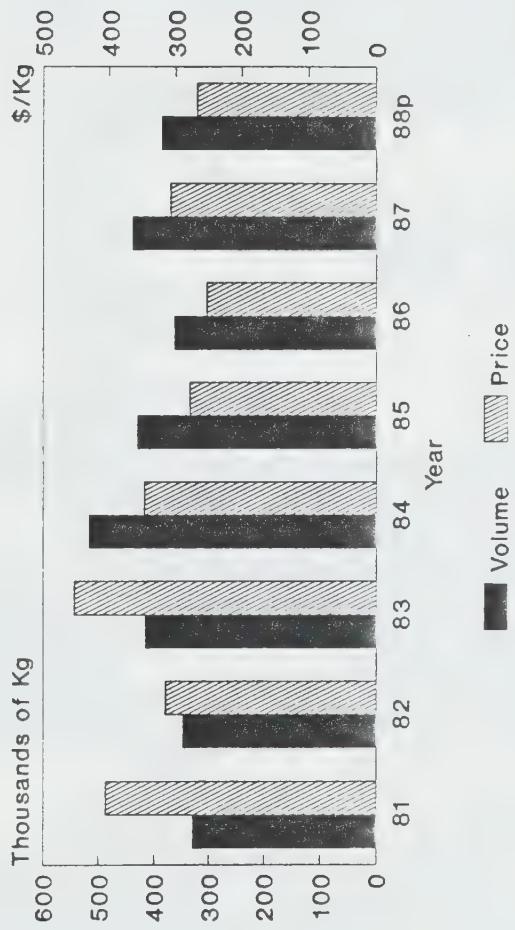
Source: Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Nickel Production and Nickel Price in Canadian Dollars 1981 - 1988p



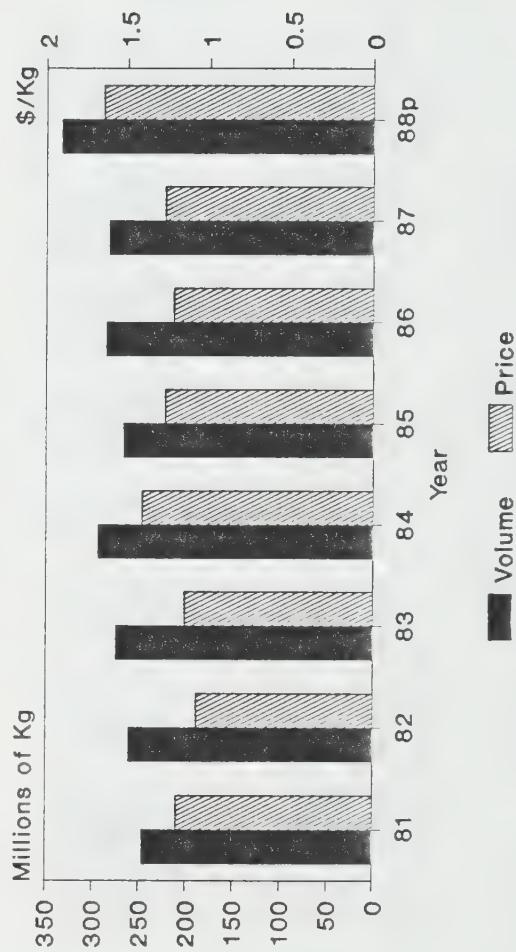
Source:Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Silver Production and Silver Price in Canadian Dollars 1981 - 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Zinc Production and Zinc Price in Canadian Dollars 1981 - 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines



Prospector shaping a claim post.

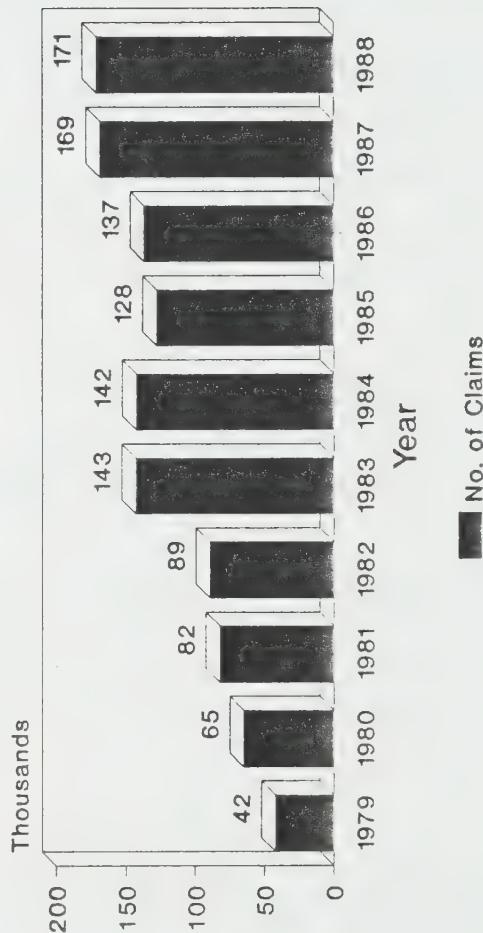
CLAIMS REPORT
FROM
ONTARIO MINING RECORDER'S OFFICES, 1989

		January			February			March			April			May			
		re- recorded			cancelled			instituted			re- recorded			cancelled			
Northwest Region																	
Kenora	269	208	2	315	174	33	95	197	0	306	220	51	686	250	4		
Patricia	145	112	2	212	109	22	116	305	1	133	412	4	99	370	1		
Red Lake	65	307	0	363	0	0	93	141	0	53	1	0	449	23	0		
Thunder Bay	318	1,107	110	693	616	62	1,033	494	18	1,245	746	5	383	979	137		
Total	797	1,734	114	1,583	899	117	1,337	1,137	19	1,737	1,379	60	1,617	1,622	142		
Northeast Region																	
Larder Lake	215	708	39	201	423	52	628	500	8	400	155	1	172	828	1		
Porcupine	225	759	52	571	219	39	686	827	64	882	0	1	225	1,543	0		
Sault Ste. Marie	85	226	4	47	6	0	25	90	39	89	425	108	141	343	17		
Sudbury	58	9	0	7	3	0	38	72	0	11	654	11	46	7	0		
Total	583	1,702	95	826	651	91	1,377	1,489	111	1,382	1,234	121	584	2,721	18		
Southern Region																	
Southern Ontario	88	5	6	16	0	0	67	126	0	96	10	0	32	219	0		
Total	88	5	6	16	0	0	67	126	0	96	10	0	32	219	0		
TOTAL REGIONS:	1,468	3,441	215	2,425	1,550	208	2,781	2,752	130	3,215	2,623	181	2,233	4,562	160		

CLAIMS REPORT

ONTARIO MINING RECORDER'S OFFICES, 1989

Mining Claims in Good Standing in Ontario 1979-1988



Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINING CLAIMS IN GOOD STANDING

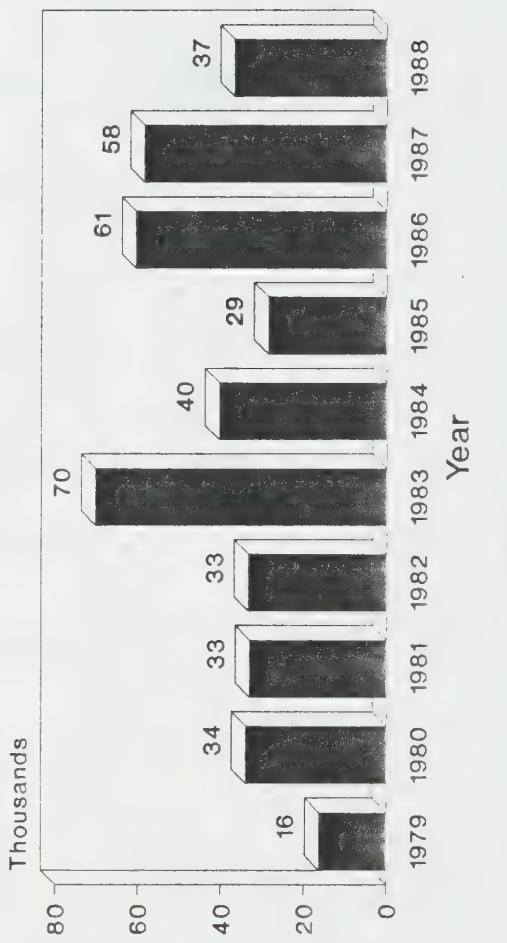
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	2,119	3,208	4,076	4,046	13,637	13,854	10,875	9,863	12,496	12,694
Patricia	4,899	7,068	8,303	7,737	10,319	10,625	9,051	13,913	18,786	18,855
Red Lake	3,189	4,301	4,889	3,922	5,130	7,799	8,212	10,427	11,017	10,935
Thunder Bay	7,554	11,245	13,663	19,349	33,721	34,904	29,285	32,097	41,568	41,994
Total	17,761	25,822	30,931	35,054	62,807	67,182	57,423	66,300	83,867	84,478
Northeast Region										
Larder Lake	8,157	12,622	15,423	13,458	17,946	21,397	23,974	24,163	27,146	26,240
Porcupine	9,597	18,753	24,731	23,694	30,586	27,179	23,207	33,181	34,474	33,337
Sault Ste. Marie	2,270	2,465	3,109	11,704	25,695	20,839	17,496	7,185	12,172	17,138
Sudbury	2,430	3,569	6,116	4,182	4,439	4,508	4,358	4,396	9,358	7,821
Total	22,454	37,409	49,379	53,038	78,666	73,923	69,035	68,925	83,150	84,536
Southern Region										
Southern Ontario	1,888	1,699	1,531	1,115	1,157	1,254	1,312	1,579	1,641	2,255
Total	1,888	1,699	1,531	1,115	1,157	1,254	1,312	1,579	1,641	2,255

Total All Regions: 42,103 64,930 81,841 89,207 142,630 142,359 127,770 136,804 168,658 171,289

Source: Information and Statistics Section, MNDM

Mining Claims Recorded in Ontario 1979-1988



Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINING CLAIMS RECORDED

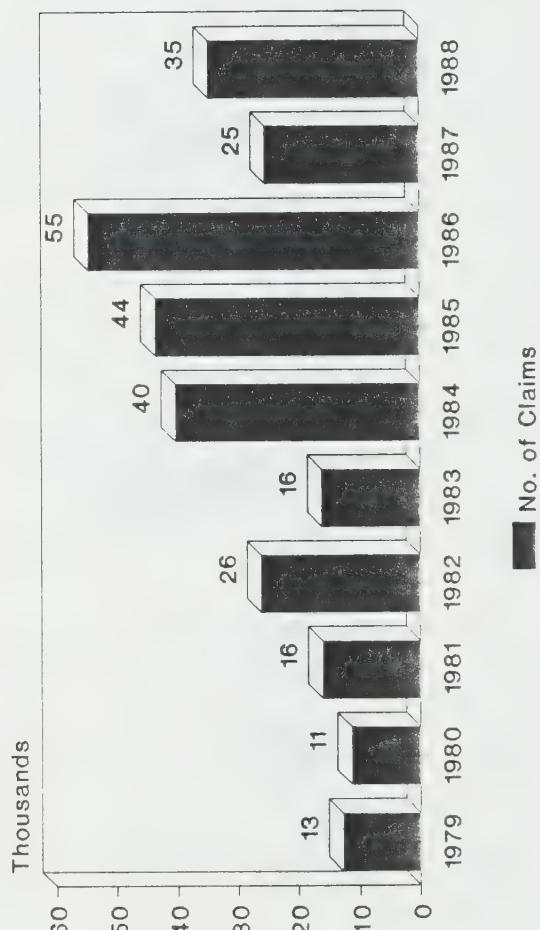
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	984	1,877	2,121	1,579	11,061	3,261	2,216	4,041	5,211	3,358
Patricia	1,012	3,485	2,861	842	4,395	5,009	2,513	7,815	5,540	2,400
Red Lake	1,065	2,220	1,719	942	2,413	4,344	2,673	3,803	4,512	2,286
Thunder Bay	3,099	5,527	6,844	10,252	15,835	8,389	4,353	15,959	16,269	10,548
Total	6,160	13,109	13,545	13,615	33,704	21,003	11,755	31,618	31,532	18,592
Northeast Region										
Larder Lake	4,261	6,299	5,498	3,253	8,354	7,943	7,588	6,973	6,742	3,885
Porcupine	3,975	10,742	8,934	5,420	11,859	7,633	6,052	17,889	8,934	6,252
Sault Ste. Marie	542	1,254	1,474	10,027	14,745	1,786	1,645	2,149	4,880	6,131
Sudbury	694	1,948	3,087	671	1,261	1,451	1,079	1,191	5,777	893
Total	9,472	20,243	18,993	19,371	36,219	18,813	16,364	28,202	26,333	17,161
Southern Region										
Southern Ontario	539	548	485	354	391	555	457	744	619	982
Total	539	548	485	354	391	555	457	744	619	982

Total All Regions: 16,171 33,900 33,023 33,340 70,314 40,371 28,576 60,564 58,484 36,735

Source: Information and Statistics Section, MNDM

Mining Claims Cancelled in Ontario 1979-1988



Source:Information & Statistics Section
Ministry of Northern Development & Mines

MINING CLAIMS CANCELLED
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	1,357	788	846	1,609	1,472	3,042	5,195	5,054	2,578	2,812
Patricia	1,061	1,391	1,582	1,766	1,164	4,074	3,972	3,046	1,918	2,424
Red Lake	1,763	1,115	1,249	1,884	1,204	1,725	2,260	1,598	1,702	2,368
Thunder Bay	2,139	1,836	4,426	4,613	1,537	7,206	10,222	13,900	7,712	10,796
Total	6,320	5,130	8,103	9,872	5,377	16,047	21,649	23,598	13,910	18,400
Northeast Region										
Larder Lake	1,452	1,834	2,697	5,218	3,866	4,492	5,011	6,787	3,854	4,814
Porcupine	2,504	1,778	2,956	6,457	4,967	11,040	10,024	8,689	4,402	7,722
Sault Ste. Marie	905	1,059	830	1,432	754	6,642	5,229	13,883	2,030	1,665
Sudbury	720	737	650	2,577	805	1,520	1,297	1,171	720	1,780
Total	5,581	5,408	7,133	15,684	10,392	23,694	21,561	30,530	11,006	15,981
Southern Region										
Southern Ontario	805	721	758	617	377	498	360	426	526	404
Total	805	721	758	617	377	498	360	426	526	404
Total All Regions:	12,706	11,259	15,994	26,173	16,146	40,239	43,570	54,554	25,442	34,785

Source: Information and Statistics Section, MNDM



A claim post - It is the common corner between two claims.

ASSESSMENT WORK REPORT (IN DAYS)

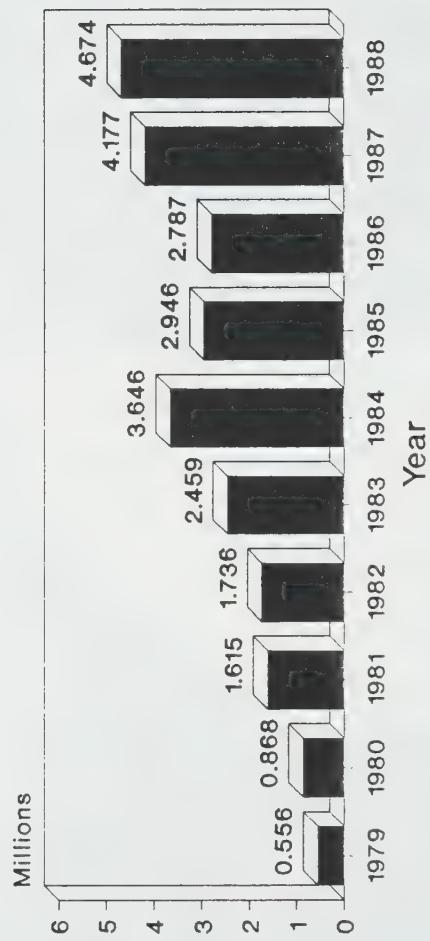
FROM

ONTARIO MINING RECORDER'S OFFICES, 1989

	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.	Oct.
.....
Northwest Region										
Kenora	15,418	22,191	10,555	21,527	15,650	10,580	26,590	36,584	5,454	21,051
Patricia	37,073	62,678	77,489	16,326	24,763	3,722	47,254	18,907	8,330	22,787
Red Lake	4,123	19,281	21,957	15,620	22,566	12,593	12,430	2,251	563	7,909
Thunder Bay	41,989	90,282	157,475	47,704	46,964	32,745	174,350	23,396	24,320	28,565
Total	98,603	194,432	267,476	101,177	109,943	59,640	260,624	81,138	38,667	80,312
Northeast Region										
Larder Lake	41,875	14,568	35,552	30,266	67,194	31,134	6,305	34,581	890	24,815
Porcupine	28,417	44,426	76,273	32,625	86,649	16,265	16,696	19,217	43,946	66,208
Sault Ste. Marie	59,329	36,678	39,213	25,210	42,288	27,023	33,768	6,515	10,704	25,147
Sudbury	8,767	10,865	3,585	41,639	8,617	356	310	4,799	4,735	4,400
Total	138,388	106,537	154,623	129,740	204,748	74,778	57,079	65,112	60,275	120,570
Southern Region										
Southern Ontario	7,257	4,914	6,531	3,524	226	5,137	1,112	2,042	2,690	537
Total	7,257	4,914	6,531	3,524	226	5,137	1,112	2,042	2,690	537
TOTAL REGIONS:	244,248	305,883	428,630	234,441	314,917	139,555	318,815	148,292	101,632	201,419
							41			

Source: Information and Statistics Section, MNDM

Assessment Work Recorded in Ontario 1979-1988 (in days)



Source:Information & Statistics Section
Ministry of Northern Development & Mines

ASSESSMENT WORK RECORDED (IN DAYS)

IN ONTARIO

BY MINING DIVISIONS

1979 - 1988

1979 1980 1981 1982 1983 1984 1985 1986 1987 1988

Northwest Region

Kenora	24,167	21,368	72,732	68,438	106,397	364,692	293,600	142,645	276,662	443,544
Patricia	61,249	71,696	287,636	167,359	197,223	205,214	287,468	429,480	691,582	556,155
Red Lake	62,949	71,975	106,872	118,775	53,207	128,664	270,636	189,633	261,741	457,501
Thunder Bay	101,799	127,288	280,765	292,273	664,891	922,978	791,627	462,772	1,070,214	1,116,340
Total	250,164	292,327	748,005	646,845	1,021,718	1,621,548	1,643,331	1,224,530	2,300,199	2,573,540

Northeast Region

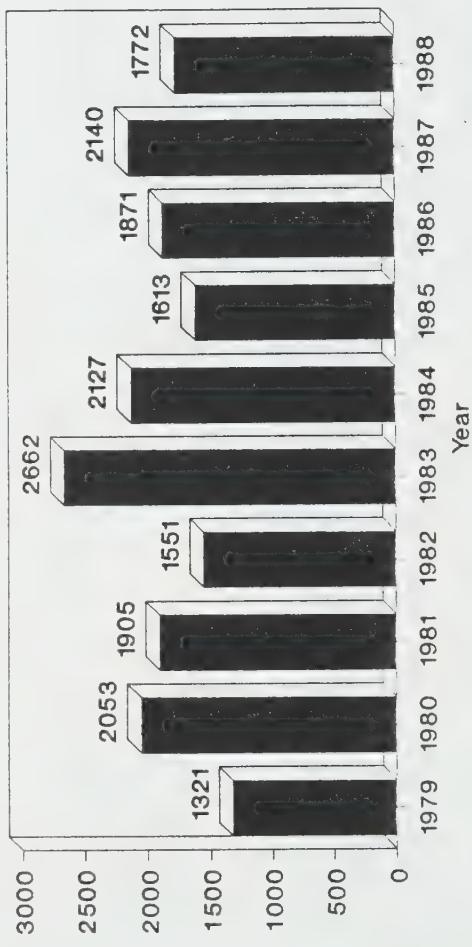
Larder Lake	68,672	209,358	247,087	313,690	304,770	473,820	460,403	631,040	600,222	654,132
Porcupine	151,003	296,852	471,827	596,097	407,161	738,038	503,338	717,522	807,277	573,160
Sault Ste. Marie	28,429	15,420	43,873	81,755	664,670	692,181	219,207	131,163	350,321	513,862
Sudbury	19,336	22,897	79,774	70,123	41,691	83,045	94,541	49,820	77,041	304,792
Total	267,440	544,527	842,561	1,061,665	1,418,292	1,987,084	1,277,489	1,529,545	1,834,861	2,045,946

Southern Region

Southern Ontario	38,428	30,719	24,617	27,326	19,324	37,536	25,398	32,599	42,337	54,359
Total	38,428	30,719	24,617	27,326	19,324	37,536	25,398	32,599	42,337	54,359

Total All Regions: 556,032 867,573 1,615,183 1,735,836 2,459,334 3,646,168 2,946,218 2,786,674 4,177,397 4,673,845

Prospectors' Licences Issued in Ontario 1979-1988



Source:Information & Statistics Section
Ministry of Northern Development & Mines

PROSPECTORS' LICENCES ISSUED

IN ONTARIO

BY MINING DIVISIONS

1979 - 1988

1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
...

Northwest Region

Kenora	48	89	83	64	205	129	93	72	94	85
Patricia	33	49	72	34	67	67	38	58	64	45
Red Lake	41	62	64	50	47	59	67	53	95	59
Thunder Bay	155	291	263	188	425	332	251	377	438	445
Total	277	491	482	336	744	587	449	560	691	634

Northeast Region

Larder Lake	220	271	244	185	214	208	157	213	226	183
Porcupine	172	273	271	216	311	269	219	254	249	196
Sault Ste. Marie	64	101	67	64	172	98	66	72	75	79
Sudbury	120	180	202	178	252	234	188	209	256	191
Total	576	825	784	643	949	809	630	748	806	649

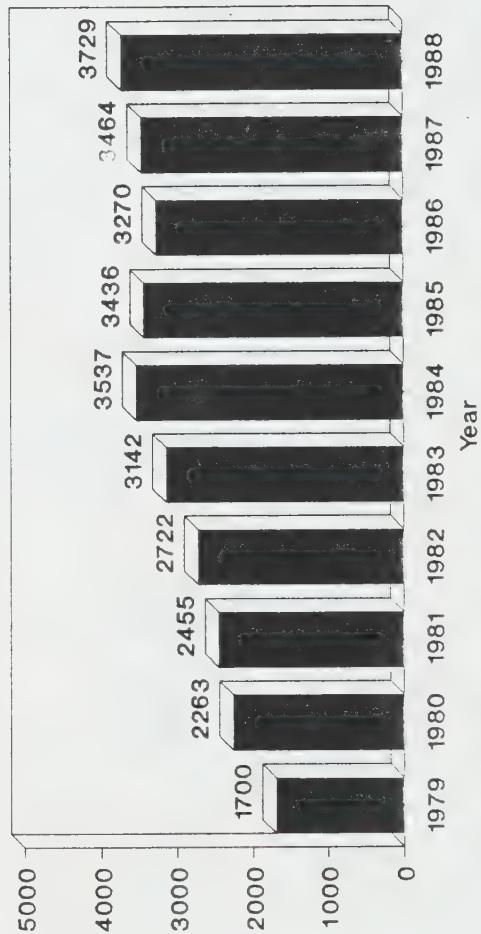
Southern Region

Southern Ontario	468	737	639	572	969	731	534	563	643	489
Total	468	737	639	572	969	731	534	563	643	489

Total All Regions:	1,321	2,053	1,905	1,551	2,662	2,127	1,613	1,871	2,140	1,772
										45

Source: Information and Statistics Section, MNDM

Prospectors' Licences Renewed in Ontario 1979-1988



Source: Information & Statistics Section
Ministry of Northern Development & Mines

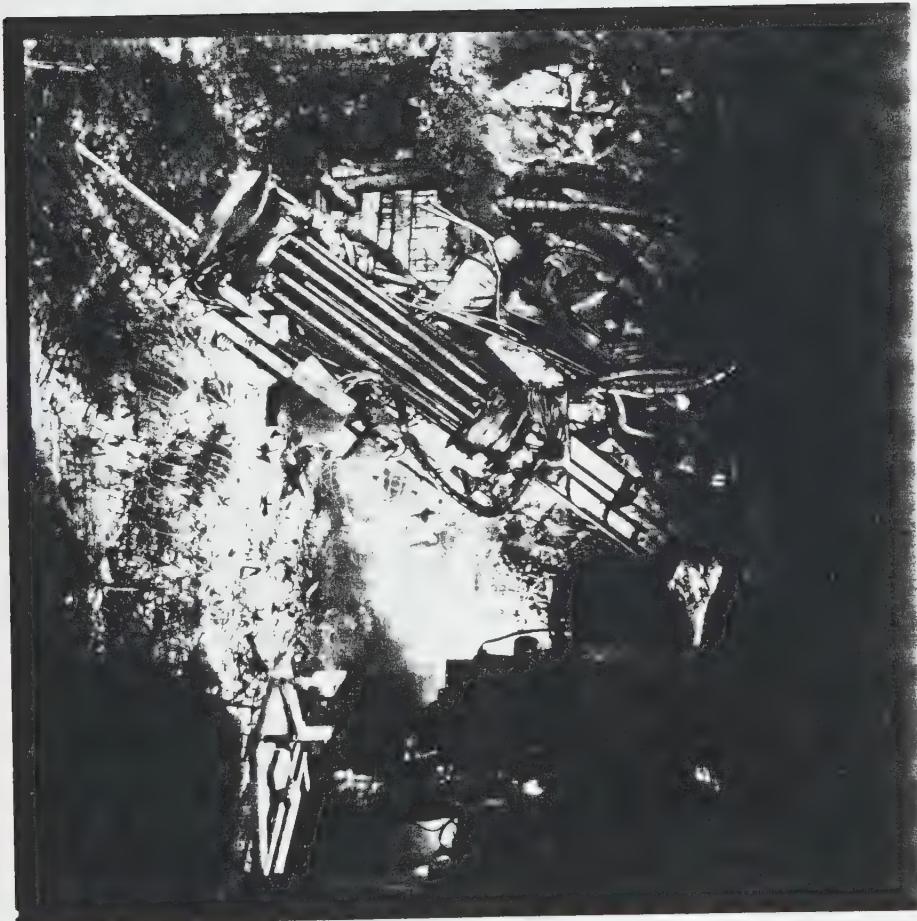
PROSPECTORS' LICENCES RENEWED

IN ONTARIO

BY MINING DIVISIONS
1979 - 1988

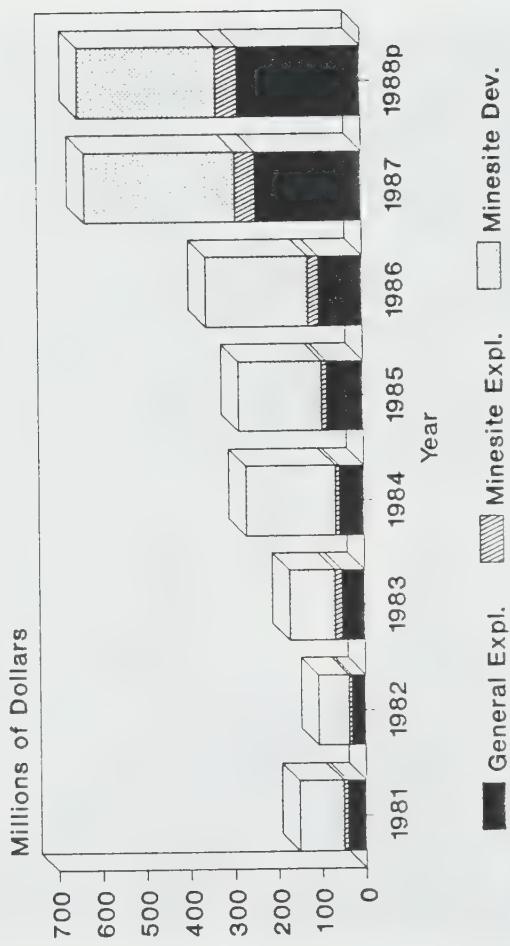
	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	52	54	83	78	107	132	123	113	139	141
Patricia	40	49	47	37	63	56	58	88	65	78
Red Lake	60	75	96	83	76	87	65	66	67	80
Thunder Bay	200	283	231	356	316	451	393	466	517	562
Total	352	461	457	554	562	726	639	733	788	861
Northeast Region										
Larder Lake	201	275	295	303	375	352	335	303	303	275
Porcupine	195	268	308	307	343	393	355	355	402	452
Sault Ste. Marie	68	80	91	87	210	118	136	103	95	141
Sudbury	143	168	189	241	238	252	240	225	303	308
Total	607	791	883	938	1,166	1,115	1,066	986	1,103	1,176
Southern Region										
Southern Ontario	741	1,011	1,115	1,230	1,414	1,696	1,731	1,551	1,573	1,692
Total	741	1,011	1,115	1,230	1,414	1,696	1,731	1,551	1,573	1,692
Total All Regions:	1,700	2,263	2,455	2,722	3,142	3,537	3,436	3,270	3,464	3,729

Source: Information and Statistics Section, MNDM



To ensure a safe working environment; rock bolts are secured in this workplace.

**TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1981 - 1988p**

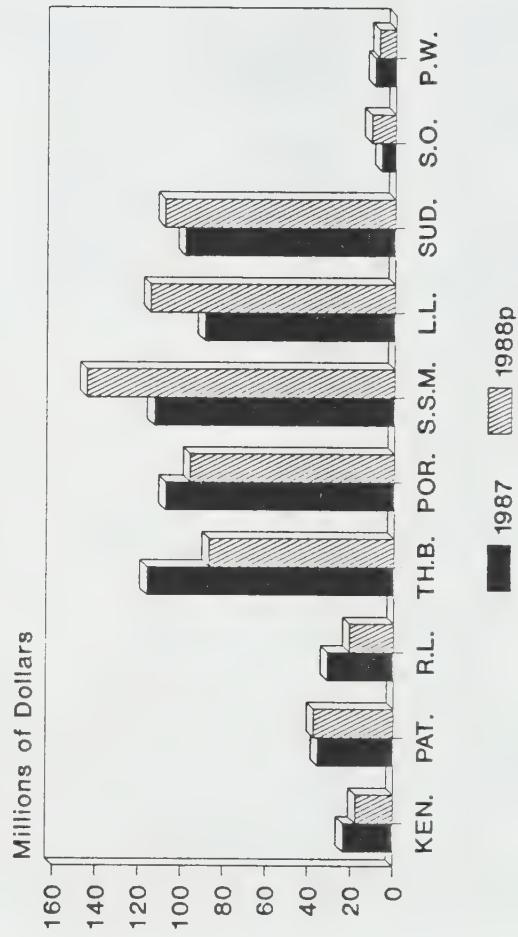


Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL EXPLORATION AND DEVELOPMENT
 EXPENDITURES IN ONTARIO
 (IN CURRENT DOLLARS)
 1981 - 1988

	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	(\\$)	(\\$)	(\\$)	(\\$)
1988 ^p	646,174,433	282,299,983	49,917,156	313,957,294
1987	631,779,488	243,781,599	45,937,175	342,060,714
1986	357,913,442	99,479,944	24,385,587	234,047,911
1985	285,514,464	82,379,194	11,917,683	191,217,587
1984	270,282,158	55,872,952	9,312,938	205,096,268
1983	171,384,988	52,434,213	14,692,989	104,257,786
1982	106,390,043	31,227,498	7,141,352	68,021,193
1981	152,010,941	41,923,880	9,191,238	100,895,823

**TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
BY MINING DIVISION**



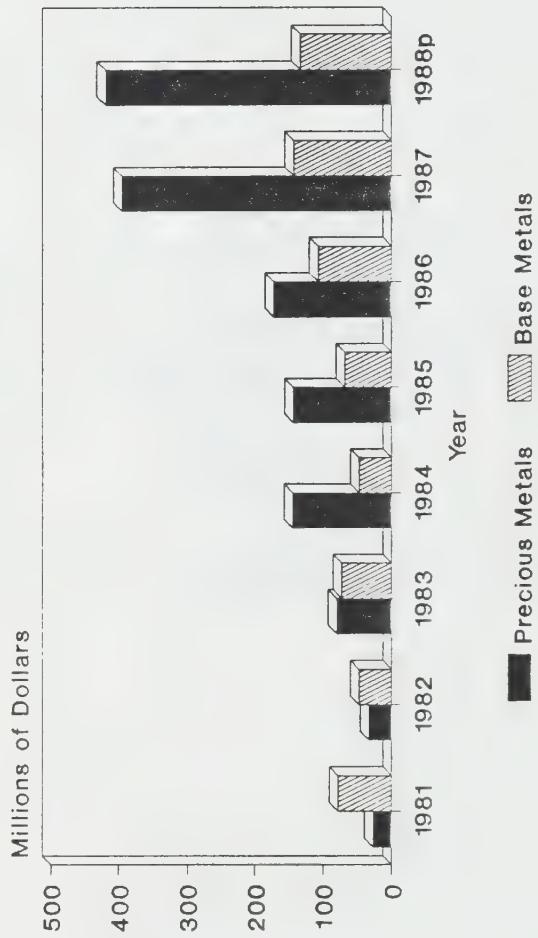
Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
BY MINING DIVISION
1988p VS 1987

	1988p	1987	% Change
	(\$)	(\$)	
Kenora	17,764,341	23,518,580	-24.5
Patricia	37,491,206	35,438,121	5.8
Red Lake	20,798,349	31,051,067	-33.0
Thunder Bay	87,112,100	116,270,156	-25.1
Porcupine	96,195,771	107,719,132	-10.7
Sault Ste Marie	144,529,250	113,058,723	27.8
Larder Lake	114,847,836	89,444,036	28.4
Sudbury	108,279,830	98,818,916	9.6
Southern Ontario	11,318,009	6,603,103	71.4
Province Wide	7,837,741	9,857,654	-20.5
Total Expenditure:	646,174,433	631,779,488	2.3

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES
IN ONTARIO
PRECIOUS METALS VS BASE METALS



Source: Information & Statistics Section
Ministry of Northern Development & Mines

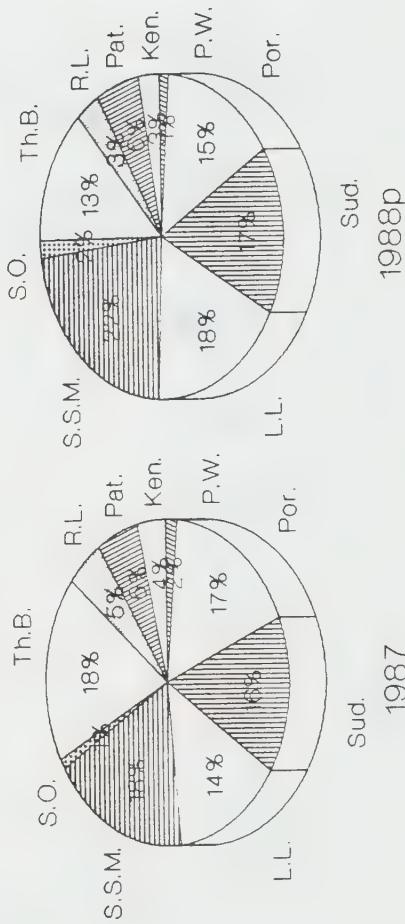
EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO
 (IN CURRENT DOLLARS)
 1981 - 1988^p

	PRECIOUS METALS						BASE METALS					
	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT	TOTAL
1988 ^p	248,558,358	39,958,493	134,034,786	419,255,837	23,076,115	9,641,463	100,544,846	133,262,424				
1987*	216,912,847	37,737,394	140,709,301	395,359,542	19,792,346	7,843,164	115,500,855	143,136,365				
1986	84,177,343	18,339,087	69,705,941	172,222,371	11,885,830	6,000,260	89,572,705	107,458,795				
1985	64,866,703	4,621,874	74,264,015	143,752,592	14,392,799	7,151,703	47,000,400	68,544,902				
1984	46,173,739	5,600,855	92,897,540	144,672,134	6,477,514	3,523,929	37,955,274	47,956,717				
1983	31,177,917	9,452,208	39,670,348	80,300,473	16,780,123	5,107,503	51,227,758	73,115,384				
1982	15,473,725	4,220,587	13,913,557	33,607,869	13,267,004	2,732,349	31,818,413	47,817,766				
1981	15,773,310	2,871,214	8,474,224	27,118,748	20,047,790	4,736,654	53,382,582	78,167,026				

* Revised

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
BY MINING DIVISION



Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1988p VS 1987

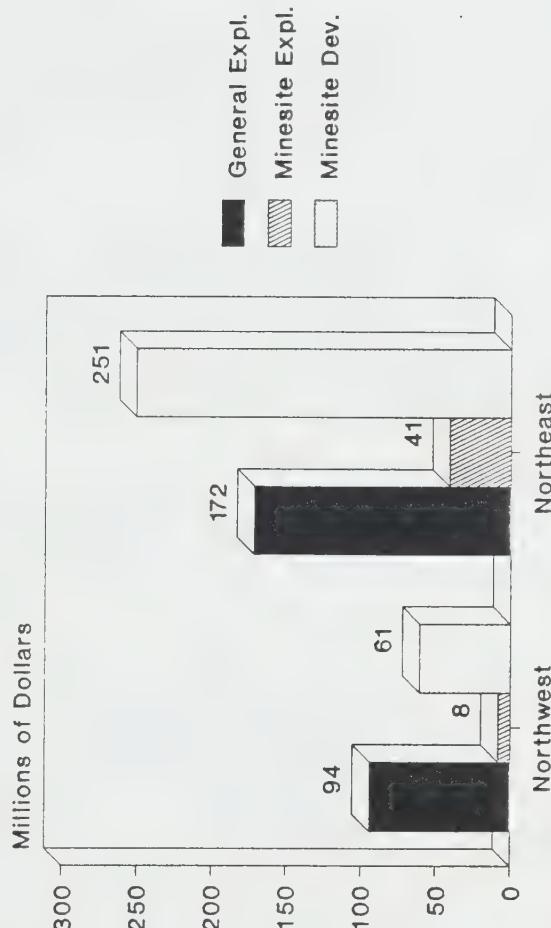
	1988p	1987	% Change
	(\$)	(\$)	(\$)
Diamond Drilling	163,854,129	172,699,619	-5.1
Geochemical	11,391,129	11,325,982	0.6
Geology	24,289,295	27,934,053	-13.0
Geophysical	12,726,687	14,460,023	-12.0
Airborne Geo.	4,535,509	4,871,011	-6.9
Rock Work	79,154,109	42,694,847	85.4
Shafts	7,101,413	2,804,480	153.2
Drifts, Crosscuts	164,664,958	164,931,022	-0.2
Raises, Declines	44,771,116	74,444,495	-39.9
Stripping	8,609,296	9,129,630	-5.7
Other Exp. & Dev.	125,076,792	106,484,326	17.5
 Total Expenditure:	 646,174,433	 631,779,488	 2.3

Source: Information and Statistics Section, MNDM

**TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1988p**

	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	(\$)	(\$)	(\$)
Diamond Drilling	163,854,129	124,965,075	17,060,581
Geochemical	11,391,129	10,625,198	765,931
Geology	24,289,295	22,987,924	1,301,371
Geophysical	12,726,687	12,403,760	322,927
Airborne Geo.	4,535,509	4,520,456	15,053
Rock Work	79,154,109	56,183,378	22,970,731
Shafts	7,101,413		7,101,413
Drifts, Crosscuts	164,664,958		164,664,958
Raises, Declines	44,771,116		44,771,116
Stripping	8,609,296		8,609,296
Other Exp. & Dev.	125,076,792	50,614,192	7,480,562
Total Expenditure:	646,174,433	282,299,983	49,917,156
			313,957,294

EXPLORATION AND DEVELOPMENT EXPENDITURES
IN NORTHWEST & NORTHEAST REGIONS
1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

GENERAL EXPLORATION EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL

	(\$)	(\$)	(\$)	(\$)	(\$)
Diamond Drilling	5,750,831	8,697,682	7,709,790	22,569,637	44,727,940
Geochemical	667,807	934,599	360,243	3,427,027	5,389,676
Geology	1,243,681	3,008,694	1,615,070	4,138,837	10,006,282
Geophysical	816,568	1,376,933	572,823	2,486,670	5,252,994
Airborne Geo.	332,050	504,453	108,318	740,102	1,684,923
Rock Work	5,072,143	87,271	312,631	5,647,227	11,119,272
Other	2,475,499	2,061,257	1,796,649	9,613,516	15,946,921
Total Expenditure:	16,358,579	16,670,889	12,475,524	48,623,016	94,128,008

GENERAL EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1988p

	LARDER LAKE	PORCUPINE	S S MARIE	SUDSBURY	TOTAL
Diamond Drilling	30,575,871	19,387,050	14,731,088	10,642,523	75,336,532
Geochemical	1,048,060	655,749	1,529,947	891,262	4,125,018
Geology	3,970,982	3,123,156	2,075,310	1,043,751	10,213,199
Geophysical	2,521,258	1,614,954	1,254,177	765,089	6,155,478
Airborne Geo.	348,875	883,938	217,287	510,976	1,961,076
Rock Work	24,652,502	12,903,228	5,432,284	137,763	43,125,777
Other	9,866,876	10,422,344	9,569,148	1,029,778	30,888,146
Total Expenditure:	72,984,424	48,990,419	34,809,241	15,021,142	171,805,226

Source: Information and Statistics Section, MNDM

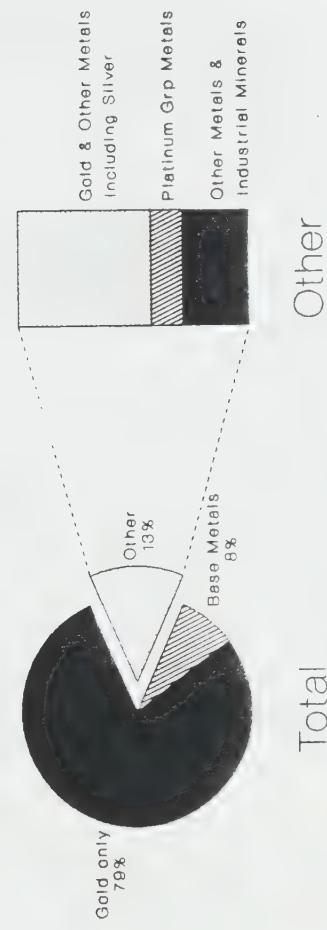
GENERAL EXPLORATION EXPENDITURES
IN SOUTHERN REGION AND UNDEFINED REGION
1988p

	SOUTHERN ONARIO	UNDEFINED REGION	TOTAL

	(\\$)	(\\$)	(\\$)
Diamond Drilling	3,603,340	1,297,263	4,900,603
Geochemical	548,123	562,381	1,110,504
Geology	1,444,641	1,323,802	2,768,443
Geophysical	133,451	861,837	995,288
Airborne Geo.	0	874,457	874,457
Rock Work	1,881,205	57,124	1,938,329
Other	918,248	2,860,877	3,779,125
Total Expenditure:		8,529,008	16,366,749
		7,837,741	

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
BY METAL OR MINERAL SOUGHT IN ONTARIO
1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE EXPLORATION EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL

	(\\$)	(\\$)	(\\$)	(\\$)	(\\$)
Diamond Drilling	498,681	2,167,839	154,566	2,167,039	4,988,125
Geochemical	0	110,283	23,148	2,900	136,331
Geology	59,678	59,076	34,498	56,300	209,552
Geophysical	0	136,537	990	179,900	317,427
Airborne Geo.	0	0	53	0	53
Rock Work	770,523	48,046	0	0	818,569
Other	76,880	227,615	126,105	1,496,717	1,927,317
Total Expenditure:	1,405,762	2,749,396	339,360	3,902,856	8,397,374

Source: Information and Statistics Section, MNOM

MINESITE EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1988^p

	LARDER LAKE	PORCUPINE	S. S. MARIE	SUDBURY	TOTAL

Diamond Drilling	3,579,021	1,967,781	3,527,000	2,794,084	11,867,886
Geochemical	0	0	618,600	0	618,600
Geology	495,685	270,134	245,000	0	1,010,819
Geophysical	0	0	5,500	0	5,500
Airborne Geo.	0	0	0	0	0
Rock Work	556,539	2,866,828	17,168,000	1,560,795	22,152,162
Other	2,522,928	2,183,804	562,050	278,833	5,547,615
Total Expenditure:	7,154,173	7,288,547	22,126,150	4,633,712	41,202,582

MINESITE EXPLORATION EXPENDITURES
IN SOUTHERN REGION
1988 p

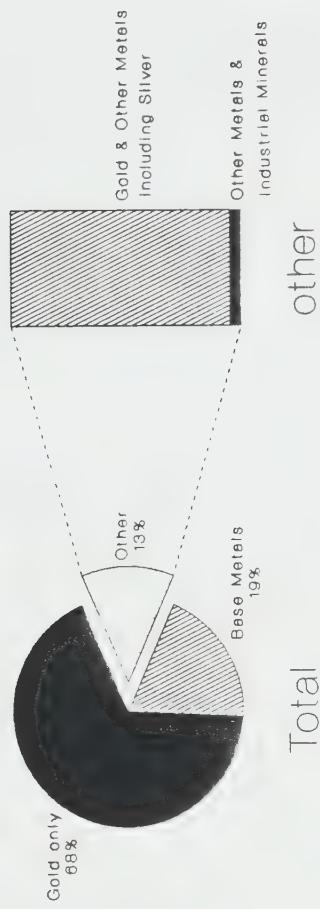
SOUTHERN
ONTARIO

(\$)

Diamond Drilling	204,570
Geochemical	11,000
Geology	81,000
Geophysical	0
Airborne Geo.	15,000
Rock Work	0
Other	5,630
Total Expenditure:	317,200

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
BY METAL OR MINERAL SOUGHT IN ONTARIO
1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE DEVELOPMENT EXPENDITURES
IN NORTHWEST REGION
1988 p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
Diamond Drilling	0	1,204,751	1,732,425	1,824,334	4,761,510
Shaft	0	4,305,570	0	0	4,305,570
Drifts and Crosscuts	0	7,119,065	3,636,873	20,572,094	31,328,032
Raises and Declines	0	1,666,374	1,884,621	8,572,704	12,123,699
Stripping	0	0	0	0	0
Other	0	3,775,161	729,546	3,617,096	8,121,803
Total Expenditure:	0	18,070,921	7,983,465	34,586,228	60,640,614

MINESITE DEVELOPMENT EXPENDITURES
IN NORTHEAST REGION
1988⁰

	LARDER LAKE	PORCUPINE	S. S. MARIE	SUDBURY	TOTAL
Diamond Drilling	3,327,453	2,795,809	5,790,111	5,115,750	17,029,123
Shaft	0	0	2,090,000	705,843	2,795,843
Difts and Crosscuts	10,200,772	21,184,243	64,077,706	37,874,205	133,336,926
Raises and Declines	2,163,937	7,214,219	10,470,194	11,799,067	31,647,417
Stripping	3,824,671	0	141,759	4,246,566	8,212,996
Other	15,192,406	8,722,534	5,024,089	28,883,545	57,822,574
Total Expenditure:	34,709,239	39,916,805	87,593,859	88,624,976	250,844,879

Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
IN SOUTHERN REGION
1988p

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SOUTHERN
ONTARIO

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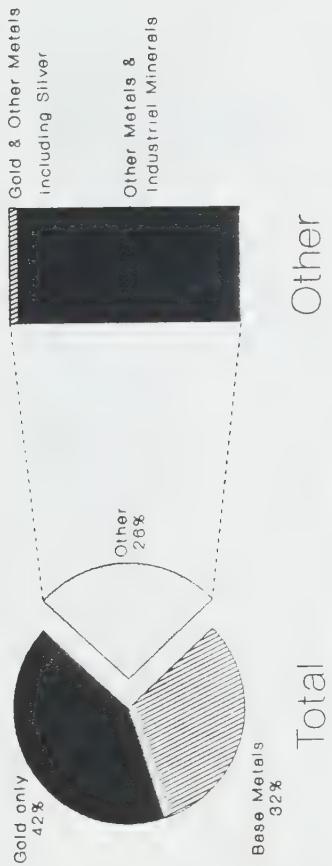
Diamond Drilling	37,840
Shaft	0
Drifts and Crosscuts	0
Raises and Declines	1,000,000
Stripping	396,300
Other	1,037,661

Total Expenditure:

2,471,801

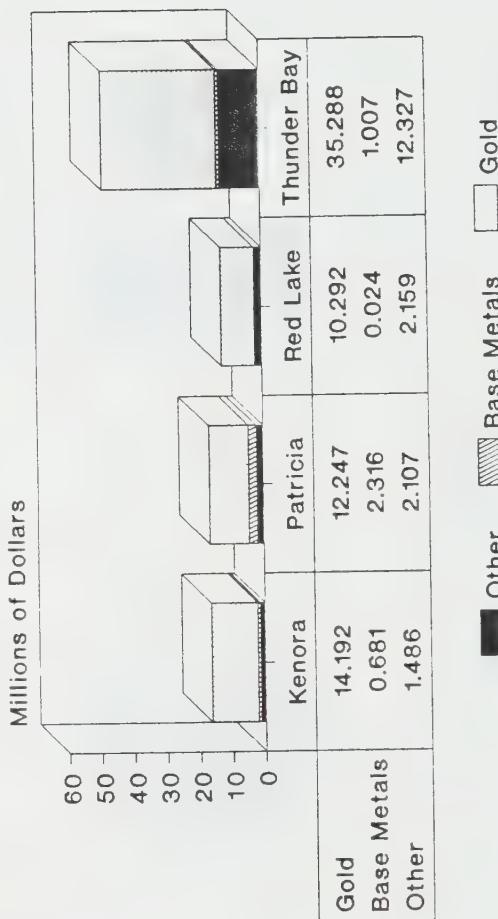
Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
BY METAL OR MINERAL SOUGHT IN ONTARIO
1988p



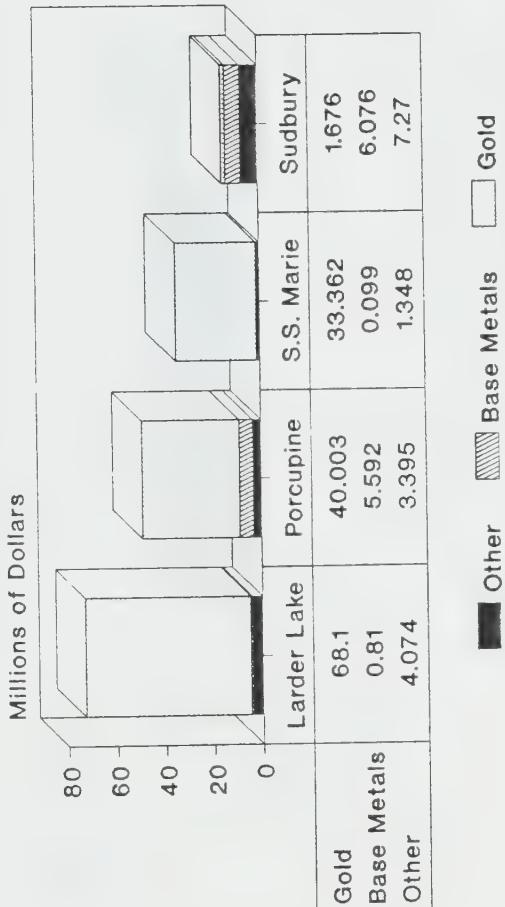
Source: Information & Statistics Section
Ministry of Northern Development & Mines

GENERAL EXPLORATION EXPENDITURES
BY METAL AND MINERAL SOUGHT
AND BY MINING DIVISION, 1988^p



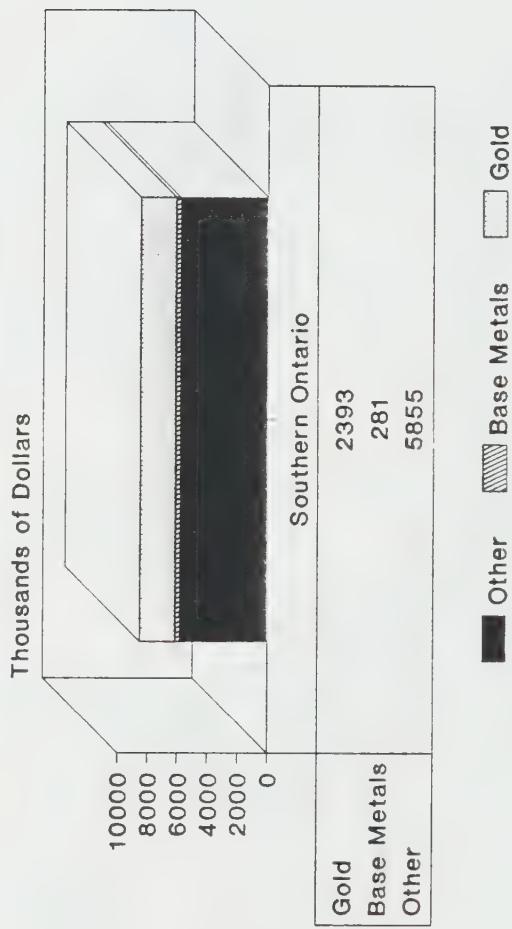
Source: Information & Statistics Section
Ministry of Northern Development & Mines

GENERAL EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



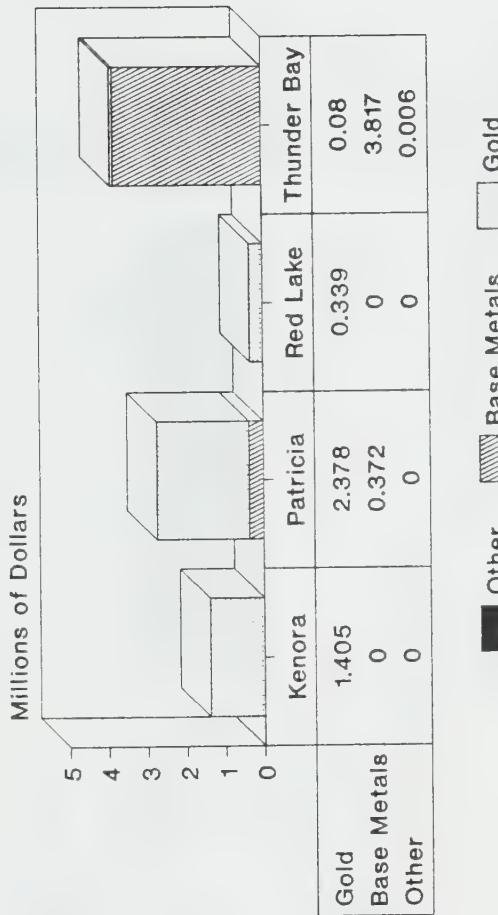
Source: Information & Statistics Section
Ministry of Northern Development & Mines

GENERAL EXPLORATION EXPENDITURES
BY METAL AND MINERAL SOUGHT
AND BY MINING DIVISION, 1988p



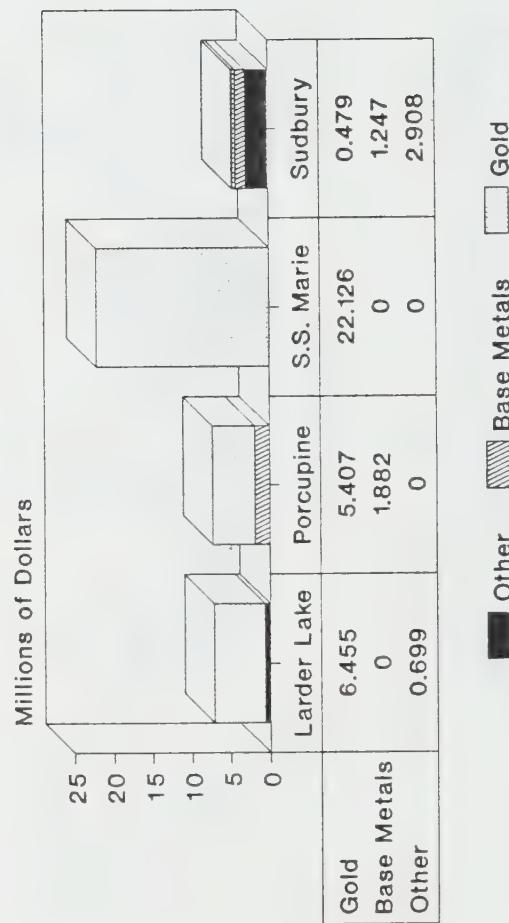
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



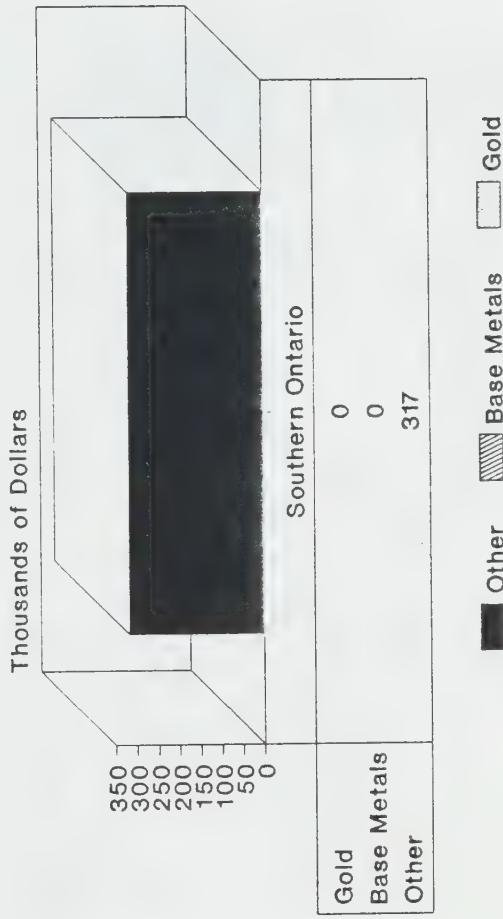
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE EXPLORATION EXPENDITURES
BY METAL AND MINERAL SOUGHT
AND BY MINING DIVISION, 1988p



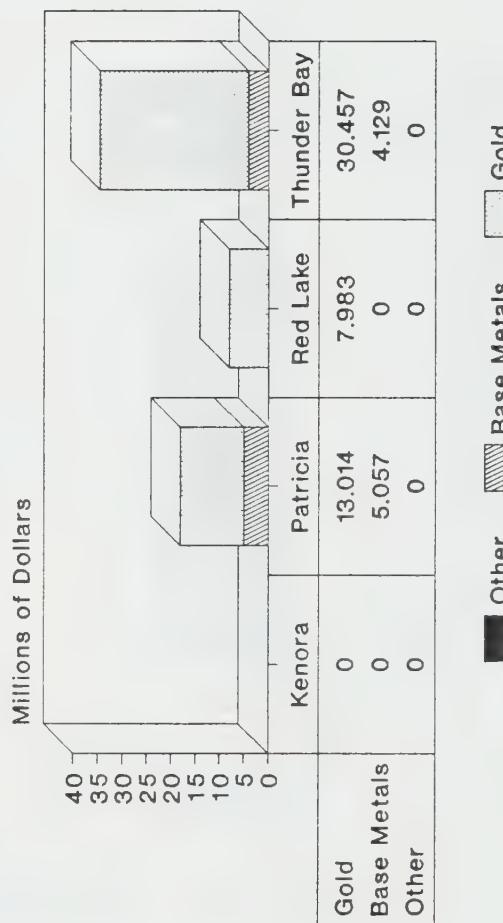
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE EXPLORATION EXPENDITURES
BY METAL AND MINERAL SOUGHT
AND BY MINING DIVISION, 1988p



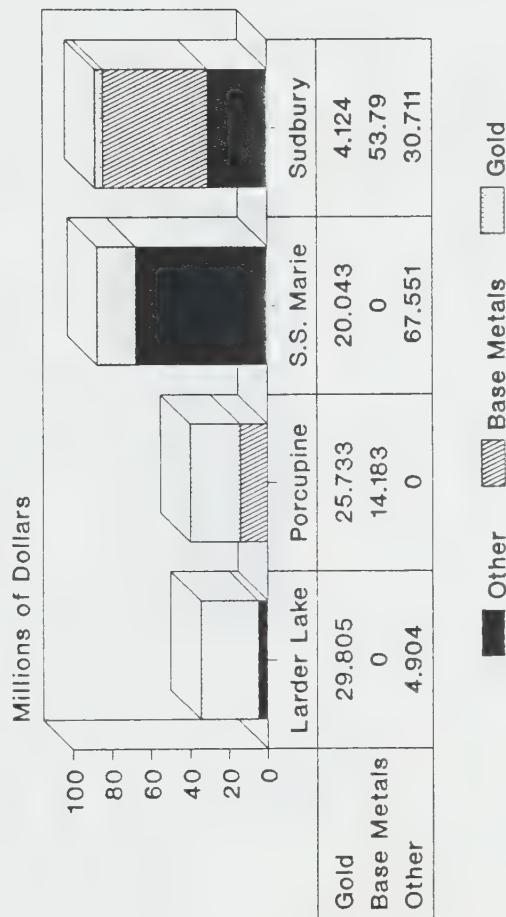
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE DEVELOPMENT EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988^p



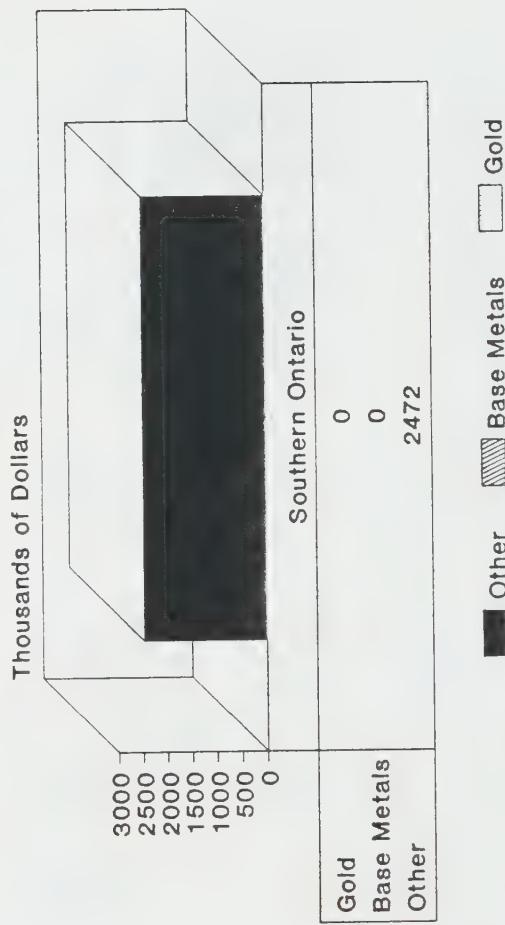
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE DEVELOPMENT EXPENDITURES
BY METAL AND MINERAL SOUGHT
AND BY MINING DIVISION, 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE DEVELOPMENT EXPENDITURES
BY METAL AND MINERAL SOUGHT
AND BY MINING DIVISION, 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

LIST OF PRODUCING MINES IN ONTARIO

1989 - 1990

NAME OF MINES

HEAD OFFICE ADDRESS

MINE OFFICE ADDRESS

METAL MINES:

GOLD

American Barrick Resources

-Holt-McDermott Mine

24 Hazelton Ave. Toronto, Ontario, M5R 2E2

P. O. Box 278, Kirkland Lake, Ontario, P2N 3H7

Ateba Mines Inc.

Ste. 1400, 22 Front St. W
Toronto, Ontario, M5J 1C4

P. O. Box 65, Beardmore, Ontario, P0T 1G0

Bond Gold Canada Inc.
-Golden Patricia Mine

Ste. 1100, 20 Adelaide E.
Toronto, Ontario, M5C 2T6

P. O. Bag 4000, Sioux Lookout, Ontario, P0V 2T0

Canamax Resources Inc.
-Bell Creek Mine
-Kremzar Mine

Ste. 1100, 181 University Ave.
Toronto, Ontario, M5H 3M7

P. O. Box 550, Porcupine, Ontario, P0N 1C0
P. O. Box 766, Wawa, Ontario, P0S 1K0

Citadel Gold Mines Inc. (4)

Ste. 402, 67 Yonge St.
Toronto, Ontario, M5E 1J8

P. O. Box 54, Surluga Rd. Wawa, Ontario, P0S 1K0

Dickenson Mines Ltd.
-Arthur W. White Mine

Ste. 2600, 130 Adelaide St. W.
Toronto, Ontario, M5H 3P5

Balmerton, Ontario, P0V 1C0

Eastmagma Gold Mines Ltd.

Ste. 1320, 885 W. Georgia St.
Vancouver, B. C. V6C 3E8

P. O. Box 37, Kirkland Lake, Ontario, P2N 3M6

ERG Resources Inc.
-Timmins Tailings Project

Ste. 1601, 95 Wellington St. W.
Toronto, Ontario, M5J 2N7

P. O. Bag 2015, Timmins, Ontario, P4N 8H3

Falconbridge Gold Corp.
-Hoyle Pond Mine
-Owl Creek Mine

P. O. Box 40, Commerce Ct. W.
Toronto, Ontario, M5L 1B4

P. O. Bag 2002, Timmins, Ontario, P4N 7K1
" " "

NAME OF MINES

HEAD OFFICE ADDRESS

MINE OFFICE ADDRESS

GOLD (cont'd)

Giant Yellowknife Mines Ltd.	Ste. 1601, 95 Wellington St. W. Toronto, Ontario, M5J 2N7	P. O. Box 2010, Timmins, Ontario, P4N 7X7
-Timmins Division		
-No. 1 Mine		
-No. 1 Mine (NOS. 3 & 4 Pits)		
-Schumacher Mine		
-Ross Mine		
-Timmins Surface Pit		
-Definite Pit		
Golden Shield Resources Ltd.	Ste. 904, 121 Richmond St. W. Toronto, Ontario, M5H 2K1	Virginiatown, Ontario, P0K 1X0
-Barber-Larder Open Pit (1)		
-Kerr Mine Div.		
Hemlo Gold Mines Inc.	4 King St. W. Toronto, Ontario, M5H 3X2	P. O. Box 40, Marathon, Ontario, P0T 2E0
-Golden Giant Mine		
Lac Minerals Ltd.	Ste. 2105, N. Tower, R.B. Plaza Toronto, Ontario, M5J 2J4	P. O. Box 550, Kirkland Lake, Ontario, P2N 3J7
-Macassa Div.		P. O. Box 670, Kirkland Lake, Ontario, P2N 3K2
-Lake Shore Tailing Projects		
Lake Asbestos of Canada Ltd.	P. O. Box 130, Porcupine, Ontario, P0N 1C0	same as Head Office
-Aquarius Mine		
McBain Mine (2)	Dobie, Ontario, P0K 1B0	Dobie, Ontario, P0K 1B0
Muscocho Explorations Ltd.	36 Toronto St., Toronto, Ontario, M5C 2C5	P. O. Box 209, Dubreuilville, Ontario, P0S 1B0
-Magino Gold Mine		P. O. Box 61, Wawa, Ontario, P0S 1K0
-Magnacon Project (3)		
Normanco Mining Corp. (5)	Ste. 900, 999 West Hastings St. Vancouver, B.C. V6C 2W2	General Del. River Valley, Ontario, P0H 2C0
-Golden Rose Mine		
Orofino Resources Ltd.	1 First Canadian Place Toronto, Ontario, M5X 1C7	RR 1, Kukagami Lake Rd. Wahnapitae, Ont. P0M 3C0
-Scadding Mine		

NAME OF MINES

MINE OFFICE ADDRESS

GOLD (cont'd)

Placer Dome Inc.
 - Campbell Red Lake Mine
 - Dome Mine
 - Detour Lake Mine
 - Donna Lake Mine

Renabie Gold Mines Ltd.

Ste. 3500, IBM Tower, T.O. Centre
 Toronto, Ontario, M5K 1N3

Ste. 1900, 120 Adelaide St. W.
 Toronto, Ontario, M5H 1J1

St. Andrews Goldfields Ltd. (3)

166 Pearl St. Toronto, Ontario, M5H 1L3

Teck-Corona Operating Corp.
 - David Bell Mine

Williams Operating Corp.
 - Page Williams Mine

IRON

The Adams Mine

The Algoma Steel Corp. Ltd.
 - Algoma Ore Div.

Sherman Mine-Joint Venture

MAGNESIUM & CALCIUM

Timminco Metals
 - A Division of Timminco Ltd.

P.O. Box 10, Balmertown, Ontario, P0K 1C0
 Box 70, South Porcupine, Ontario, P0N 1H0
 130 Wilson Ave., Timmins, Ontario, PAN 2S9
 P.O. Box 338 Pickle Lake, Ontario, P0Y 3A0

P.O. Box 65, Missanabie, Ontario, P0M 2H0

P.O. Box 449, Matheson, Ontario, P0K 1N0

P.O. Box 11, Marathon, Ontario, P0T 2E0

P.O. Box 500, Marathon, Ontario, P0T 2E0

same as Head Office

same as Head Office

Wawa, Ontario, P0S 1K0

same as Head Office

Haley, Ontario, K0J 1Y0

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
URANIUM		
Denison Mines Ltd.	P. O. Box 40, Royal Bank Plaza Toronto, Ontario, M5J 2K2	P. O. Box B-2600, Elliot Lake, Ontario, P5A 2K2
Rio Algom Ltd.		
-Panel Mine	120 Adelaide St. W. Toronto, Ontario, M5H 1W5	P. O. Box 1500, Elliot Lake, Ontario, P5A 2K1
-Stanleigh Mine	"	"
-Quirke Mine	"	"
SILVER		
Agnico-Eagle Mines Ltd.	Ste. 2302, 401 Bay St Toronto, Ontario, M5H 2Y4	P. O. Box 140, Cobalt, Ontario, P0J 1C0
-Castle Mine	"	"
-Timiskaming Mine	"	"
-Langis Mine	"	"
Helvens-Eplett Mining Inc. (6)	Ste. 1101, 10 King St. E. Toronto, Ontario, M5C 1C3	P. O. Box 319, Cobalt, Ontario, P0J 1R0
COPPER-LEAD-ZINC		
Falconbridge Ltd.	P. O. Box 40, Commerce Crt. W. Toronto, Ontario, M5L 1B4	P. O. Box 2002, Timmins, Ontario, P4N 7K1
-Kidd Creek No. 1 Mine Undg	"	"
-Kidd Creek No. 2 Mine Undg	"	"
Mattabi Mines Ltd.	P. O. Box 45, Commerce Crt. W. Toronto, Ontario, M5L 1B6	P. O. Box 190, Ignace, Ontario, P0T 2C0
Minnova Inc.	P. O. Box 91, Commerce Crt. W. Toronto, Ontario, M5L 1C7	P. O. Bag 2, Schreiber, Ontario, P0T 2S0
-Winston Lake Div.		
Noranda Minerals Inc.	P. O. Box 45, Commerce Crt. W. Toronto, Ontario, M5L 1B6	P. O. Box 190, Ignace, Ontario, P0T 2C0
-Lyon Lake Div.		P. O. Box 100, Manitouadge, Ontario, P0T 2C0
-Geco Div.		

NAME OF MINES

HEAD OFFICE ADDRESS

MINE OFFICE ADDRESS

NICKEL-COPPER

Falconbridge Ltd.
 -East Mine
 -No. 5 Shaft Open Pit
 -No. 1 Shaft Open Pit
 -Lockerby Mine
 -Fraser Mine
 -Strathcona Mine
 -Onaping Mine
 -Craig Mine

P. O. Box 40, Commerce Crt. W.
 Toronto, Ontario, M5L 1B4

Inco Ltd.
 -Clarabelle Open Pit
 -Copper Cliff North Mine
 -Copper Cliff South Mine
 -Creighton Mine, #3 & #9
 -Garson Extension
 -Frood Mine
 -Levack Mine
 -Little Stobie Mine
 -McCreedy West Mine
 -Stobie Mine
 -Creen Hill Mine
 -Coleman Mine
 -Whistle Mine
 -Tarn "O" Shantier

P. O. Box 44, Royal Trust Tower
 T.D. Centre, Toronto, Ontario, M5K 1N4

Falconbridge, Ontario, P0M 1S0
 " " "
 Whitefish, Ontario, P0M 3E0
 Onaping, Ontario, P0M 2K0
 Onaping, Ontario, P0M 2R0
 Onaping, Ontario, P0M 3A0
 Onaping, Ontario, P0M 2R0

Copper Cliff, Ontario, P0M 1N0
 " " "
 Creighton, Ontario, P0M 1N0
 Garrison, Ontario, P0M 1V0
 Copper Cliff, Ontario, P0M 1N0
 Levack, Ontario, P0M C20
 Copper Cliff, Ontario, P0M 1N0
 Levack, Ontario, P0M 2C0
 Copper Cliff, Ontario, P0M 1N0
 Creighton, Ontario, P0M 1N0
 Levack, Ontario, P0M 2C0
 Capreol, Ontario, P0M 1H0
 Lively, Ontario, P0M 2E0

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
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NON-METAL MINES:

AMETHYST

Ontario Gem. Co. Ltd. P.O. Box 130, Geraldton, Ontario, P0T 1M0 P.O. Box 2120, Thunder Bay, Ontario, P7B 5E7

Precious Purple Gem. Ltd. P.O. Box 832, Thunder Bay, Ontario, P7C 4X7 same as Head Office

BARITE

Extender Minerals of Canada Ltd. Ste. 253, 5945 Airport Rd.
Mississauga, Ontario, L4V 1R9

GYPSUM

CGC Inc. 777 Bay St. Toronto, Ontario, M5W 1K8 P.O. Box 99, Hagersville, Ontario, N0A 1H0

Domtar Inc.
-Caledonia #3 Mine
Montreal, Quebec, H3A 1L6

Westroc Industries Ltd. 2424 Lakeshore Hwy. W.
Mississauga, Ontario, L5J 1K4

NEPHELINE SYENITE

Indusmin
-Div. of Falconbridge

PEAT

Atkins & Durhrow Ltd. Ste. 402, 1755 W. Broadway,
Vancouver, B.C. V6J 4S5

P.O. Box 55, Port Colborne, Ontario, L3K 5V7

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
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QUARTZ

Indusmin-Div. of Falconbridge 365 Bloor St. E. Toronto, Ontario, M4W 3L4 Badgely Island, Killarney, Ontario, P0M 2A0
Roseval Silica Inc. 2008 Lasalle Blvd. Sudbury, Ontario, P3A 2A5 Penhorwood Twp. Timmins, Ontario, P4N 7J5

SALT MINES

The Canadian Salt Co. Ltd. 755 St. Jean Blvd, 7th Floor
 Pointe-Claire, Quebec, H9R 5M9
Domtar Inc.-Domtar Chemicals Corp. 1136 Matheson Blvd.
 Mississauga, Ontario, L4W 2V4

Domtar Inc. Domtar Chemicals Group 1136 Matheson Blvd.
 Mississauga, Ontario, L4W 2V4
-Srito Salt Div.

Dow Chemicals Canada Inc. P.O. Box 1012, Sarnia, Ontario, N7T 7M1
-Sarnia Brine Wells

BRINING WELLS

General Chemical Canada Ltd. 201 City Centre Dr.
 -Amherstburg Plant
 Mississauga, Ontario, L5B 3A3

The Canadian Salt Co. Ltd. 755 St. Jean Blvd, 7th Floor
 Pointe-Claire, Quebec, H9R 5M9
Domtar Inc. Domtar Chemicals Group 1136 Matheson Blvd.
 Mississauga, Ontario, L4W 2V4
-Srito Salt Div.

Dow Chemicals Canada Inc. P.O. Box 100, Goderich, Ontario, M7A 3Y5
-Sarnia Brine Wells

SERPENTINE FILLER

Hedman Resources Ltd. P.O. Box 590, Timmins, Ontario, P4N 7E7
 Matheson, Ontario, P0K 1N0

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
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TALC

Canadian Talc Industries Ltd.

Postal Drawer 'A'
P. O. Box 250, Madoc, Ontario, K0K 2K0

same as Head Office

Luzenac Inc.

1017 North Service Rd. W.
Ste. 14, Oakville, Ontario, L6M 2G2

TREMOLITE

Commercial Industrial Minerals Ltd. Ste. 918, 130 Adelaide St. W.
Toronto, Ontario, M5H 3P5

QUARRY (CALCITE PRODUCTS)

Steep Rock Resources Inc.

Ste. 302, 45 Sheppard Ave. E.
North York, Ontario, M2N 5W9

Note:

- (1) Bulk sampling only; closed Dec. 1988
- (2) No mining; milling bulk samples only
- (3) Production to commence July, 1989
- (4) Test milling only
- (5) Closed Sept. 1989
- (6) Operations ceased August 1988

Source: Information and Statistics Section, MNDM

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